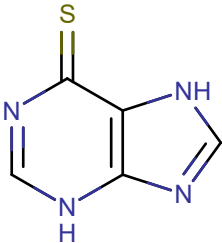

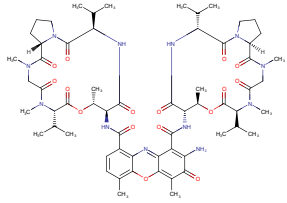
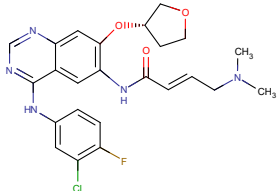
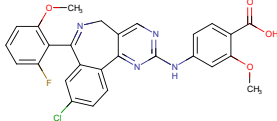
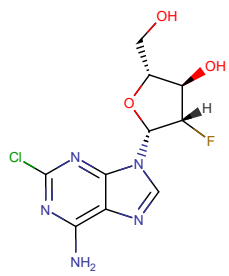
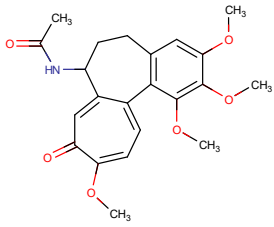
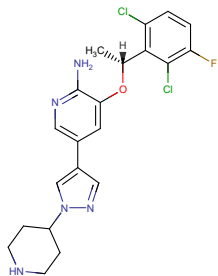
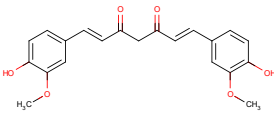
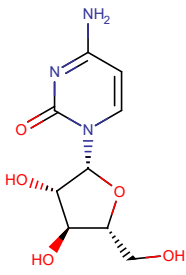
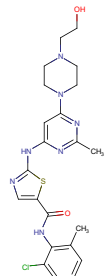
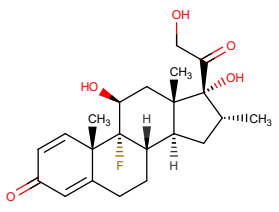
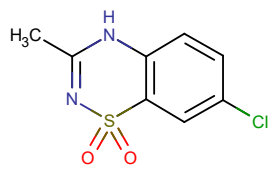
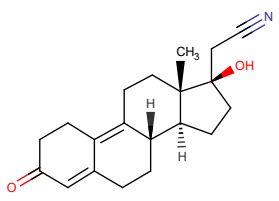
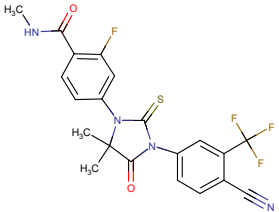
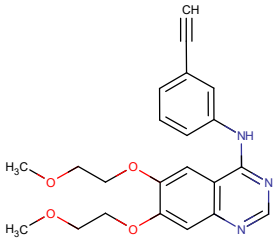
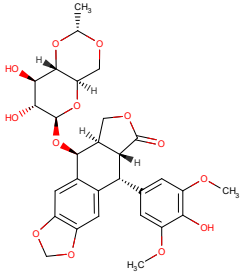
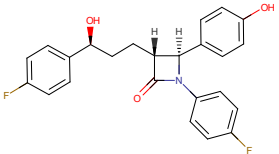
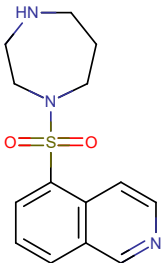
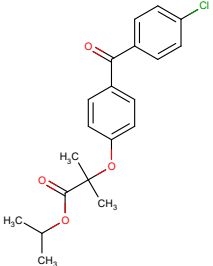
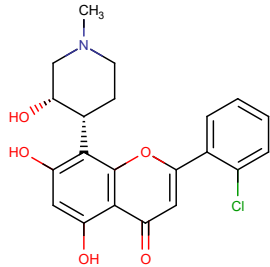
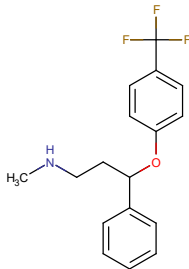
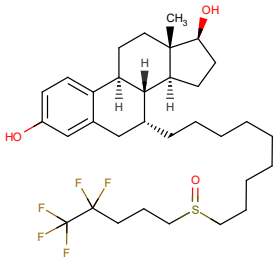


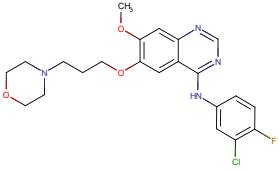
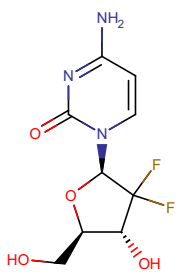
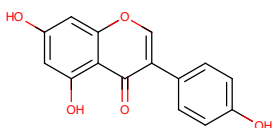
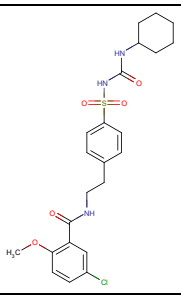
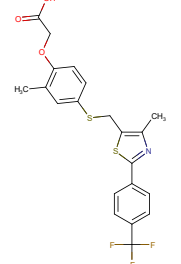
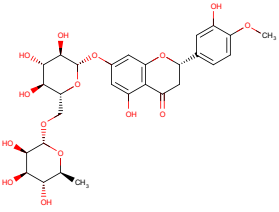
Supplementary Table S1. 225 autophagy modulators.

| Activators | | | | | |
|------------|------------------|-------------|----------------------|---|-----------|
| No. | Drug | DrugBank ID | No. of Known Targets | 2D Structure | Reference |
| 1 | 6-Mercaptopurine | DB01033 | 4 |  | [1] |
| 2 | Acetazolamide | DB00819 | 8 |  | [2] |
| 3 | Actinomycin D | DB00970 | 2 |  | [3] |
| 4 | Afatinib | DB08916 | 3 |  | [4] |
| 5 | Alisertib | DB05220 | 1 |  | [5] |

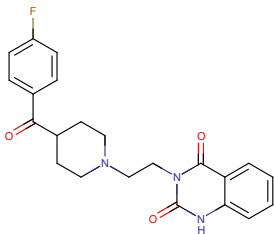
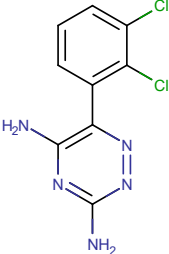
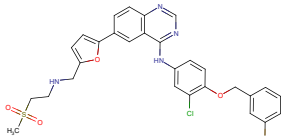
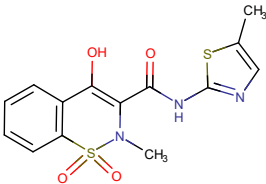
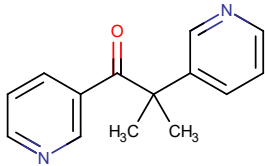
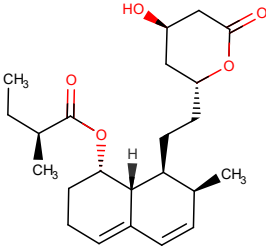
| | | | | | |
|----|-------------|---------|----|---|------|
| 18 | Clofarabine | DB00631 | 2 |  | [18] |
| 19 | Colchicine | DB01394 | 2 |  | [19] |
| 20 | Crizotinib | DB08865 | 2 |  | [20] |
| 21 | Curcumin | DB11672 | 5 |  | [21] |
| 22 | Cytarabine | DB00987 | 1 |  | [22] |
| 23 | Dasatinib | DB01254 | 23 |  | [23] |

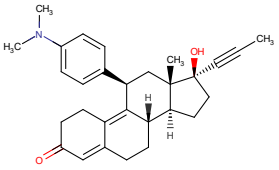
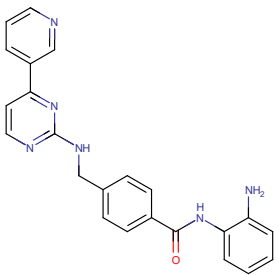
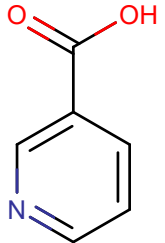
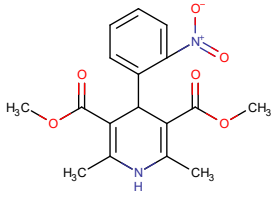
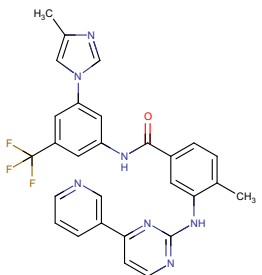
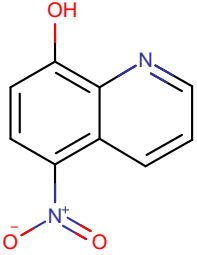
| | | | | | |
|----|---------------|---------|---|---|------|
| 24 | Dexamethasone | DB01234 | 5 |  | [24] |
| 25 | Diazoxide | DB01119 | 6 |  | [25] |
| 26 | Dienogest | DB09123 | 2 |  | [26] |
| 27 | Enzalutamide | DB08899 | 1 |  | [27] |
| 28 | Erlotinib | DB00530 | 2 |  | [28] |
| 29 | Etoposide | DB00773 | 2 |  | [29] |

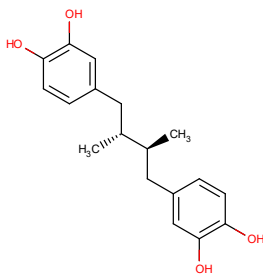
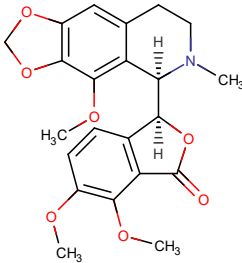
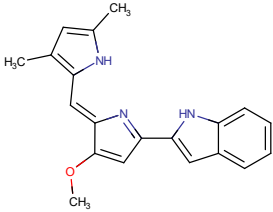
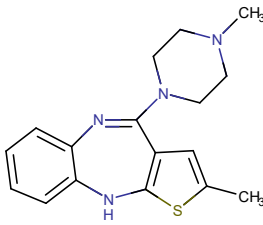
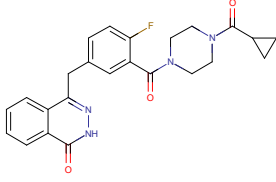
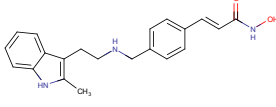
| | | | | | |
|----|--------------|---------|----|---|------|
| 30 | Ezetimibe | DB00973 | 3 |  | [30] |
| 31 | Fasudil | DB08162 | 4 |  | [31] |
| 32 | Fenofibrate | DB01039 | 5 |  | [32] |
| 33 | Flavopiridol | DB03496 | 12 |  | [33] |
| 34 | Fluoxetine | DB00472 | 7 |  | [34] |
| 35 | Fulvestrant | DB00947 | 1 |  | [35] |

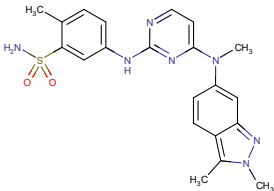
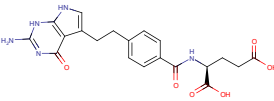
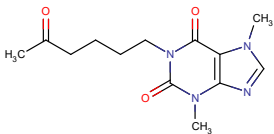
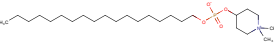
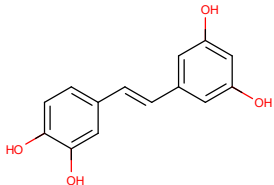
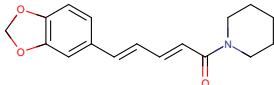
| | | | | | |
|----|---------------|---------|----|---|------|
| 36 | Gefitinib | DB00317 | 1 |  | [36] |
| 37 | Gemcitabine | DB00441 | 3 |  | [37] |
| 38 | Genistein | DB01645 | 13 |  | [38] |
| 39 | Glibenclamide | DB01016 | 9 |  | [39] |
| 40 | GW 501516 | DB05416 | 2 |  | [40] |
| 41 | Hesperidin | DB04703 | 1 |  | [41] |

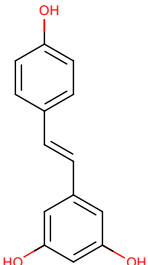
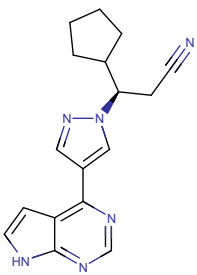
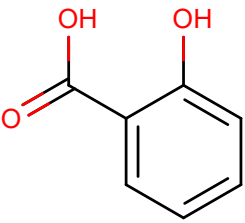
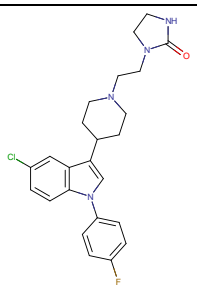
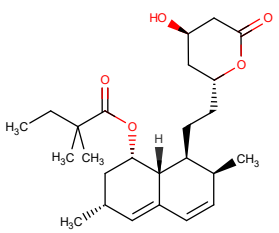
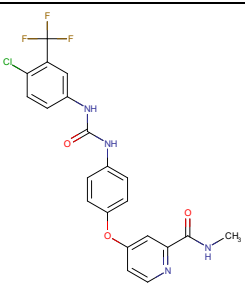
| | | | | | |
|----|--------------|---------|---|--|------|
| 42 | Hydroxyurea | DB01005 | 1 | | [42] |
| 43 | Imatinib | DB00619 | 9 | | [43] |
| 44 | Imiquimod | DB00724 | 2 | | [44] |
| 45 | Isoniazid | DB00951 | 4 | | [45] |
| 46 | Itraconazole | DB01167 | 1 | | [46] |
| 47 | Ivermectin | DB00602 | 2 | | [47] |

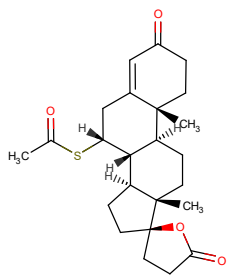
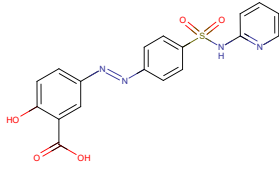
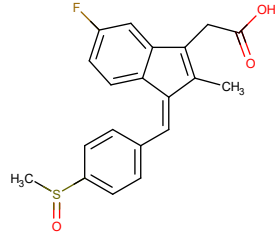
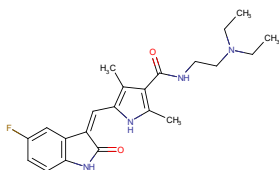
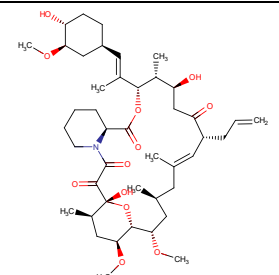
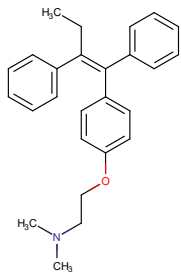
| | | | | | |
|----|-------------|---------|----|---|------|
| 48 | Ketanserin | DB12465 | 1 |  | [48] |
| 49 | Lamotrigine | DB00555 | 35 |  | [49] |
| 50 | Lapatinib | DB01259 | 2 |  | [50] |
| 51 | Meloxicam | DB00814 | 2 |  | [51] |
| 52 | Metyrapone | DB01011 | 1 |  | [52] |
| 53 | Mevastatin | DB06693 | 1 |  | [53] |

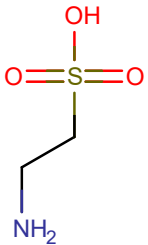
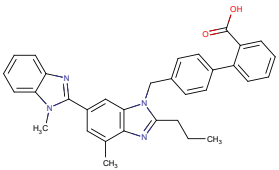
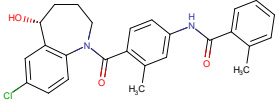
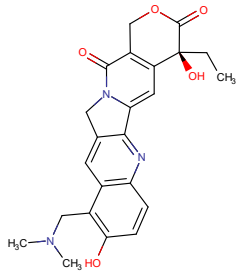
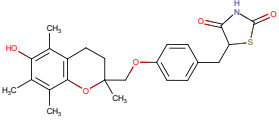
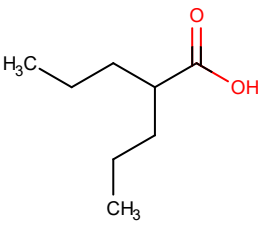
| | | | | | |
|----|--------------|---------|---|---|------|
| 54 | Mifepristone | DB00834 | 4 |  | [54] |
| 55 | Mocetinostat | DB11830 | 3 |  | [55] |
| 56 | Niacin | DB00627 | 4 |  | [56] |
| 57 | Nifedipine | DB01115 | 9 |  | [57] |
| 58 | Nilotinib | DB04868 | 2 |  | [58] |
| 59 | Nitroxoline | DB01422 | 1 |  | [59] |

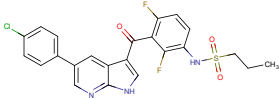
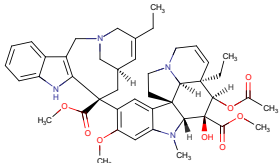
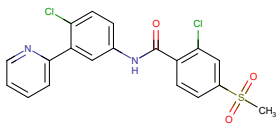
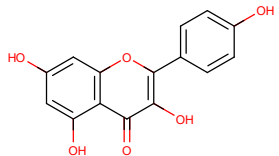
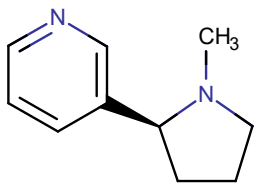
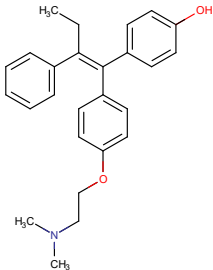
| | | | | | |
|----|--|---------|----|---|------|
| 60 | Nordihydroguaiaretic acid (Masoprocol) | DB00179 | 2 |  | [60] |
| 61 | Noscapine | DB06174 | 1 |  | [61] |
| 62 | Obatoclax | DB12191 | 1 |  | [62] |
| 63 | Olanzapine | DB00334 | 48 |  | [63] |
| 64 | Olaparib | DB09074 | 3 |  | [64] |
| 65 | Panobinostat | DB06603 | 11 |  | [65] |

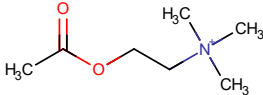
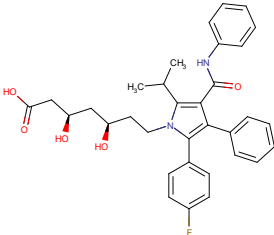
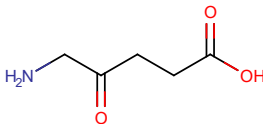
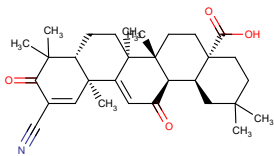
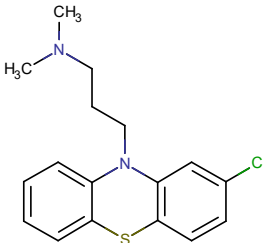
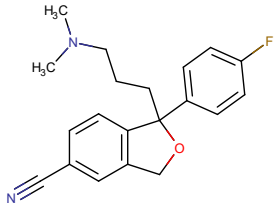
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| 66 | Pazopanib | DB06589 | 10 |  | [66] |
| 67 | Pemetrexed | DB00642 | 4 |  | [67] |
| 68 | Pentoxifylline | DB00806 | 6 |  | [68] |
| 69 | Perifosine | DB06641 | 3 |  | [69] |
| 70 | Piceatannol | DB08399 | 3 |  | [70] |
| 71 | Piperine | DB12582 | 1 |  | [71] |

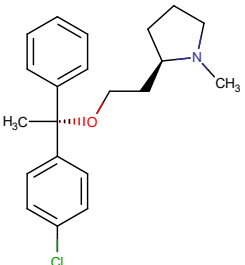
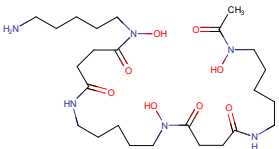
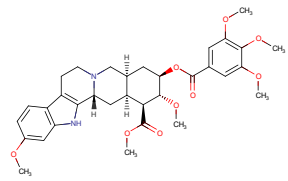
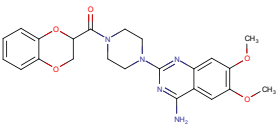
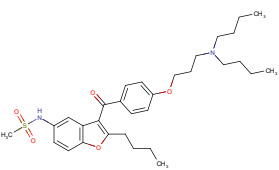
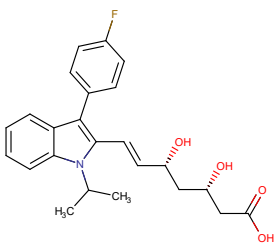
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| 78 | Resveratrol | DB02709 | 25 |  | [78] |
| 79 | Ruxolitinib | DB08877 | 2 |  | [79], [80] |
| 80 | Salicylic acid | DB00936 | 3 |  | [81] |
| 81 | Sertindole | DB06144 | 8 |  | [82] |
| 82 | Simvastatin | DB00641 | 3 |  | [83] |
| 83 | Sorafenib | DB00398 | 10 |  | [84] |

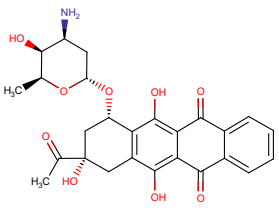
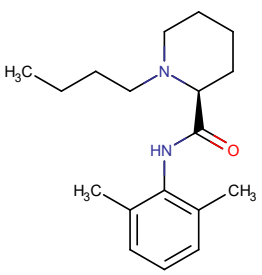
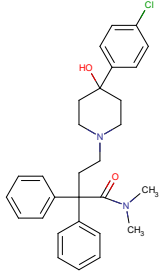
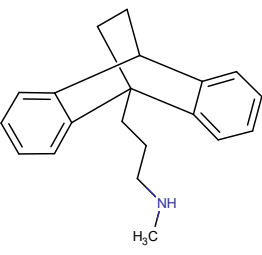
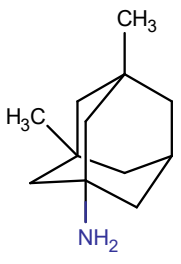
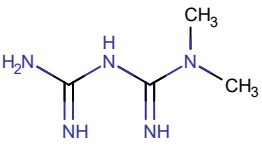
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| 84 | Spironolactone | DB00421 | 27 |  | [85] |
| 85 | Sulfasalazine | DB00795 | 10 |  | [86] |
| 86 | Sulindac | DB00605 | 7 |  | [87] |
| 87 | Sunitinib | DB01268 | 8 |  | [88] |
| 88 | Tacrolimus | DB00864 | 1 |  | [89] |
| 89 | Tamoxifen | DB00675 | 16 |  | [90] |

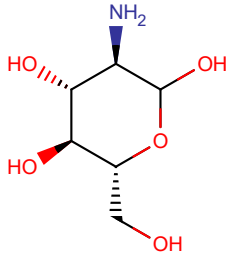
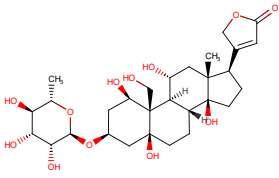
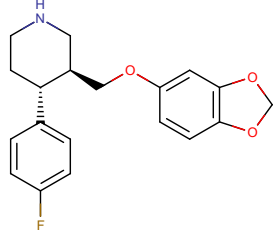
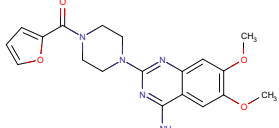
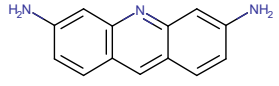
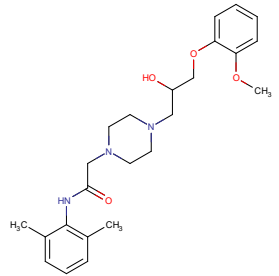
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| 90 | Taurine | DB01956 | 21 |  | [91] |
| 91 | Telmisartan | DB00966 | 2 |  | [92] |
| 92 | Tolvaptan | DB06212 | 2 |  | [93] |
| 93 | Topotecan | DB01030 | 2 |  | [94] |
| 94 | Troglitazone | DB00197 | 9 |  | [95] |
| 95 | Valproic acid | DB00313 | 23 |  | [96] |

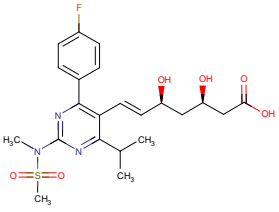
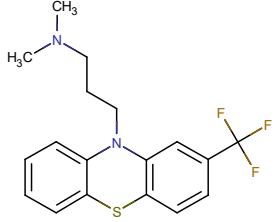
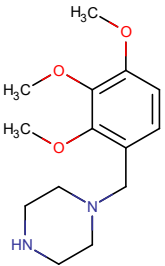
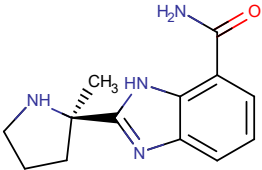
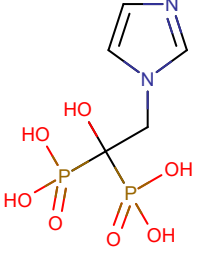
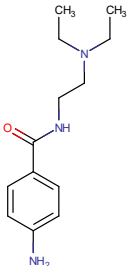
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| 96 | Vemurafenib | DB08881 | 1 |  | [97] |
| 97 | Vinorelbine | DB00361 | 1 |  | [98] |
| 98 | Vismodegib | DB08828 | 1 |  | [99] |
| 99 | Kaempferol | DB01852 | 1 |  | [100] |
| 100 | L-Nicotine (Nicotine) | DB00184 | 13 |  | [101] |
| 101 | 4-Hydroxytamoxifen | DB04468 | 7 |  | [102] |

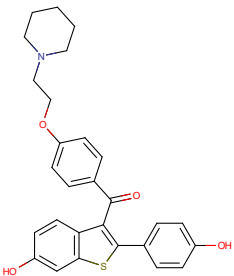
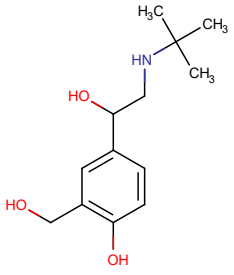
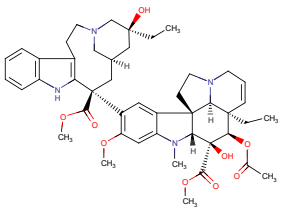
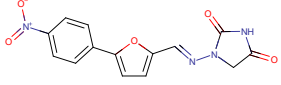
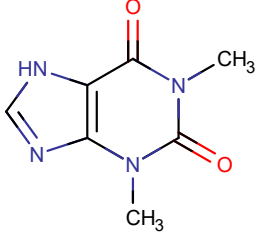
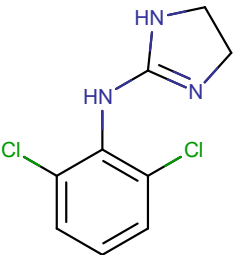
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| 102 | Acetylcholine | DB03128 | 6 |  | [103] |
| 103 | Atorvastatin | DB01076 | 3 |  | [104] |
| 104 | Aminolevulinic acid | DB00855 | 1 |  | [105] |
| 105 | Bardoxolone | DB12651 | 1 |  | [106] |
| 106 | Chlorpromazine | DB00477 | 26 |  | [107] |
| 107 | Citalopram | DB00215 | 5 |  | [108] |

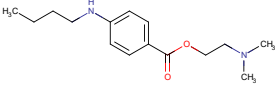
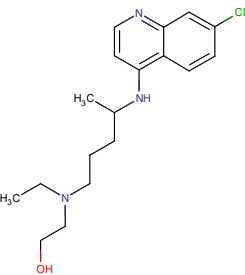
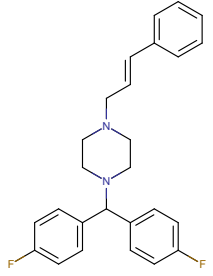
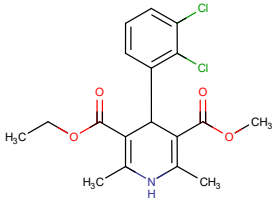
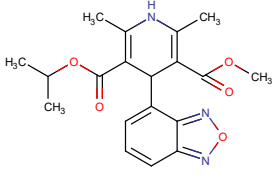
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| 108 | Clemastine | DB00283 | 1 |  | [109] |
| 109 | Deferoxamine | DB00746 | 1 |  | [110] |
| 110 | Reserpine | DB00206 | 3 |  | [111] |
| 111 | Doxazosin | DB00590 | 6 |  | [112] |
| 112 | Dronedaron | DB04855 | 18 |  | [113] |
| 113 | Fluvastatin | DB01095 | 1 |  | [114] |

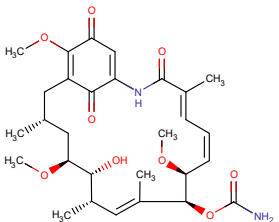
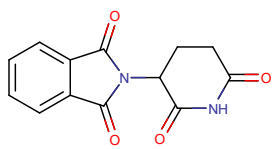
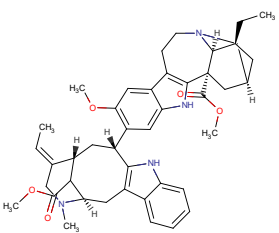
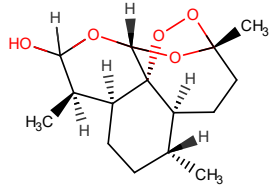
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| 114 | Idarubicin | DB01177 | 1 |  | [115] |
| 115 | Levobupivacaine | DB01002 | 1 |  | [116] |
| 116 | Loperamide | DB00836 | 7 |  | [117] |
| 117 | Maprotiline | DB00934 | 17 |  | [118] |
| 118 | Memantine | DB01043 | 7 |  | [119] |
| 119 | Metformin | DB00331 | 1 |  | [120] |

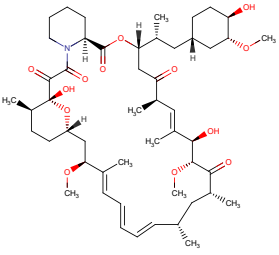
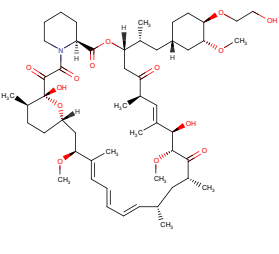
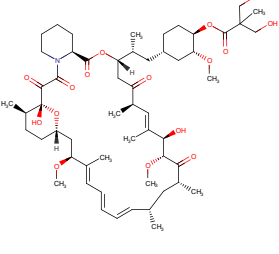
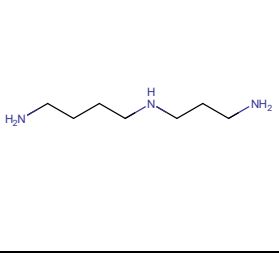
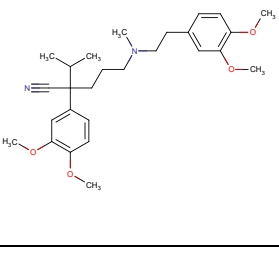
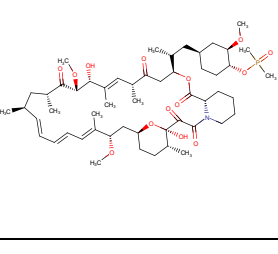
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| 126 | Glucosamine | DB01296 | 4 |  | [127] |
| 127 | Ouabain | DB01092 | 3 |  | [128] |
| 128 | Paroxetine | DB00715 | 8 |  | [129] |
| 129 | Prazosin | DB00457 | 8 |  | [130] |
| 130 | Proflavine | DB01123 | 1 |  | [131] |
| 131 | Ranolazine | DB00243 | 2 |  | [132] |

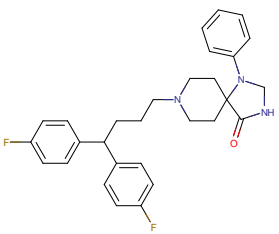
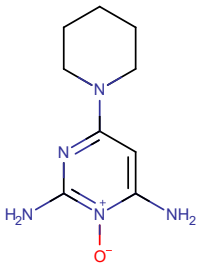
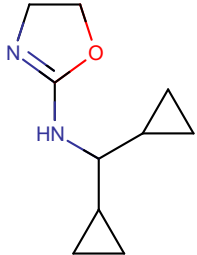
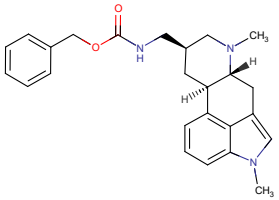
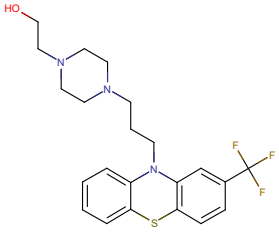
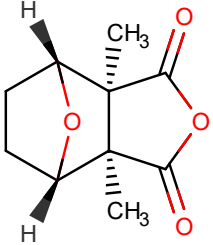
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| 132 | Rosuvastatin | DB01098 | 1 |  | [133] |
| 133 | Triflupromazine | DB00508 | 5 |  | [134] |
| 134 | Trimetazidine | DB09069 | 1 |  | [135] |
| 135 | Veliparib | DB07232 | 2 |  | [136] |
| 136 | Zoledronic acid | DB00399 | 2 |  | [137] |
| 137 | Procainamide | DB01035 | 3 |  | [138] |

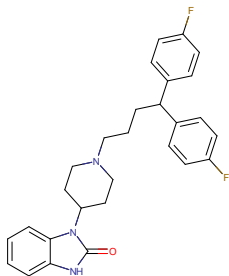
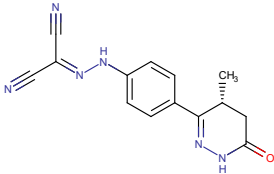
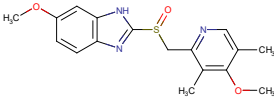
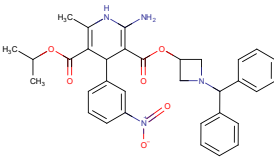
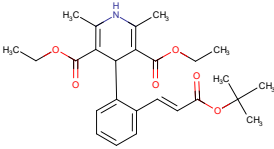
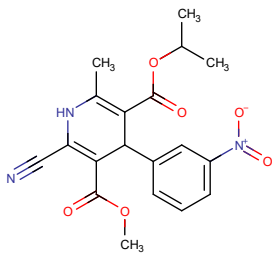
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| 138 | Raloxifene | DB00481 | 4 |  | [139] |
| 139 | Salbutamol | DB01001 | 3 |  | [140] |
| 140 | Vinblastine | DB00570 | 6 |  | [141] |
| 141 | Dantrolene | DB01219 | 1 |  | [142] |
| 142 | Theophylline | DB00277 | 14 |  | [143], [144] |
| 143 | Clonidine | DB00575 | 6 |  | [145] |

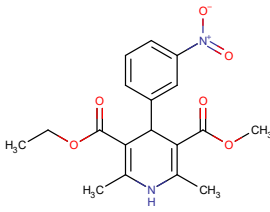
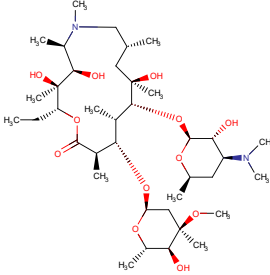
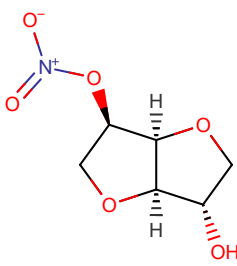
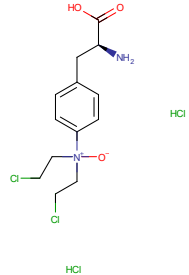
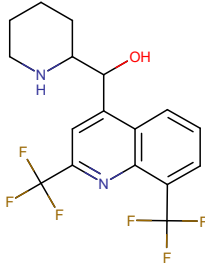
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|-----|--------------------|---------|----|---|-------|
| 144 | Tetracaine | DB09085 | 2 |  | [146] |
| 145 | Hydroxychloroquine | DB01611 | 2 |  | [147] |
| 146 | Flunarizine | DB04841 | 5 |  | [148] |
| 147 | XL765 (Voxtalib) | DB05241 | 5 | No Structure Available | [149] |
| 148 | Felodipine | DB01023 | 13 |  | [150] |
| 149 | Isradipine | DB00270 | 7 |  | [151] |

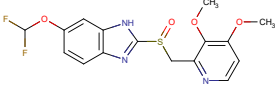
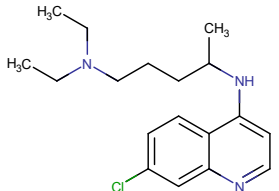
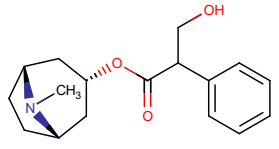
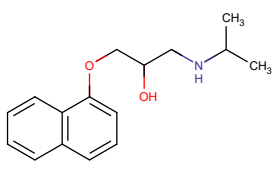
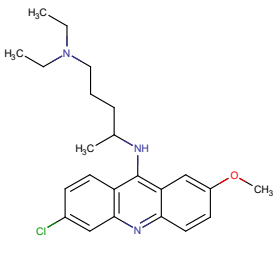
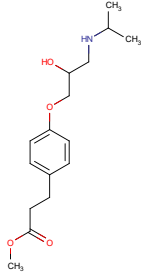
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| 150 | Geldanamycin | DB02424 | 3 |  | [152] |
| 151 | Thalidomide | DB01041 | 7 |  | [153] |
| 152 | Zinc | DB01593 | 124 | Zn | [154] |
| 153 | Copper | DB09130 | 145 | Cu | [155] |
| 154 | Voacamine | DB04877 | 1 |  | [156] |
| 155 | Artemimol | DB11638 | 78 |  | [157] |

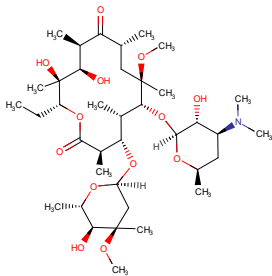
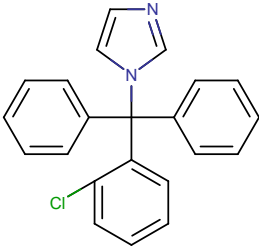
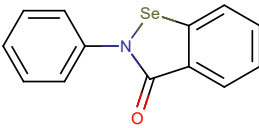
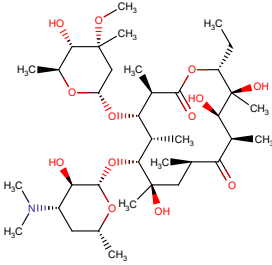
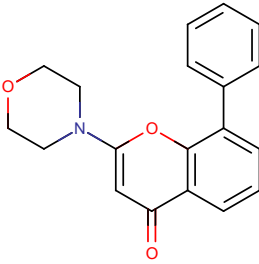
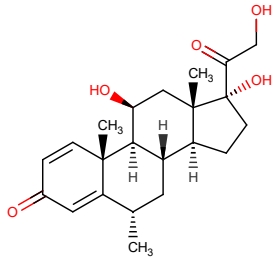
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| 156 | Rapamycin | DB00877 | 3 |  | [158] |
| 157 | Everolimus | DB01590 | 1 |  | [158] |
| 158 | Temsirolimus | DB06287 | 1 |  | [159] |
| 159 | Spermidine | DB03566 | 3 |  | [160] |
| 160 | Verapamil | DB00661 | 19 |  | [160] |
| 161 | Ridaforolimus | DB06233 | 1 |  | [161] |

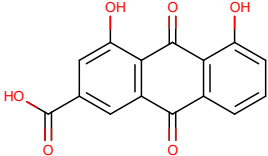
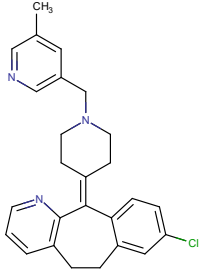
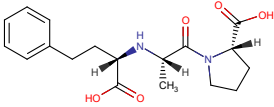
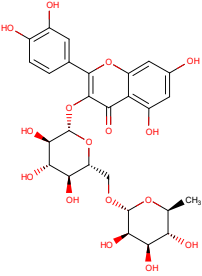
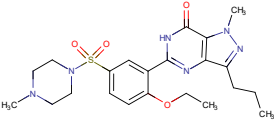
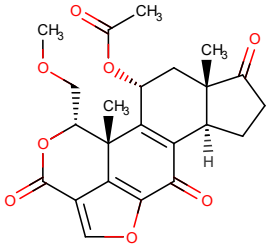
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| 162 | Fluspirilene | DB04842 | 3 |  | [158] |
| 163 | Minoxidil | DB00350 | 3 |  | [158] |
| 164 | Rilmenidine | DB11738 | 1 |  | [158] |
| 165 | Metergoline | DB13520 | 1 |  | [158] |
| 166 | Fluphenazine | DB00623 | 6 |  | [162] |
| 167 | Cantharidin | DB12328 | 1 |  | [163] |

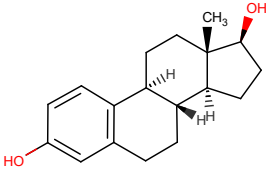
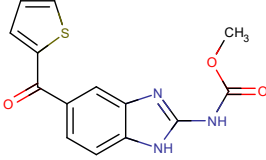
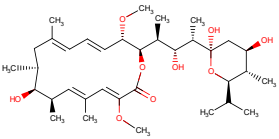
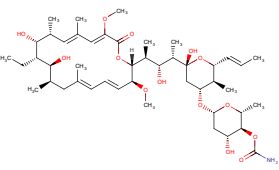
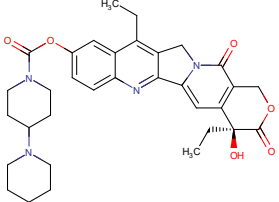
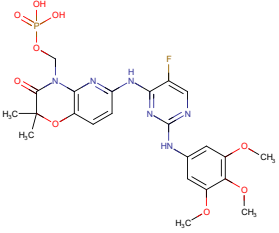
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|-----|--------------|---------|---|---|-------|
| 168 | Pimozide | DB01100 | 4 |  | [158] |
| 169 | Levosimendan | DB00922 | 4 |  | [164] |
| 170 | Omeprazole | DB00338 | 2 |  | [165] |
| 171 | Azelnidipine | DB09230 | 1 |  | [166] |
| 172 | Lacidipine | DB09236 | 8 |  | [166] |
| 173 | Nilvadipine | DB06712 | 6 |  | [166] |

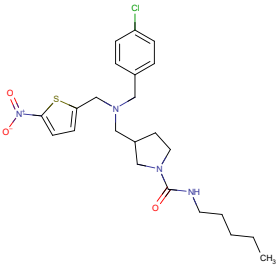
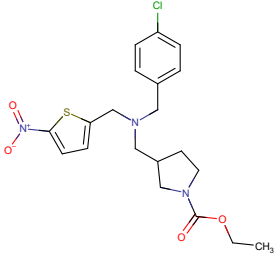
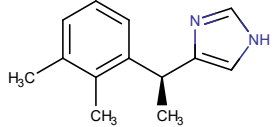
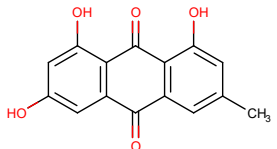
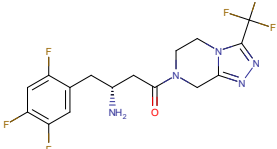
| 174 | Nitrendipine | DB01054 | 8 |  | [158] |
|------------|------------------------|-------------|----------------------|---|-----------|
| Inhibitors | | | | | |
| No. | Drug | DrugBank ID | No. of Known Targets | 2D Structure | Reference |
| 1 | Azithromycin | DB00207 | 1 |  | [167] |
| 2 | Heparin | DB01109 | 12 | No Structure Available | [168] |
| 3 | Isosorbide mononitrate | DB01020 | 1 |  | [169] |
| 4 | PX-478 | DB06082 | 1 |  | [170] |
| 5 | Mefloquine | DB00358 | 2 |  | [171] |

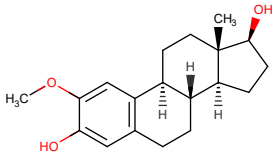
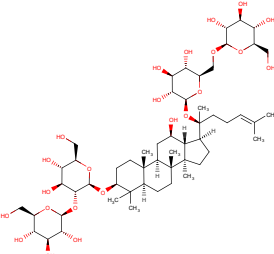
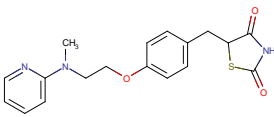
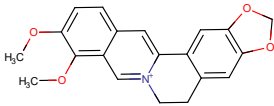
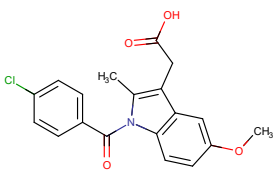
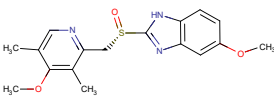
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|----|--------------|---------|---|---|-------|
| 6 | Pantoprazole | DB00213 | 1 |  | [172] |
| 7 | Chloroquine | DB00608 | 3 |  | [173] |
| 8 | Atropine | DB00572 | 8 |  | [103] |
| 9 | Propranolol | DB00571 | 5 |  | [174] |
| 10 | Quinacrine | DB01103 | 3 |  | [175] |
| 11 | Esmolol | DB00187 | 1 |  | [176] |

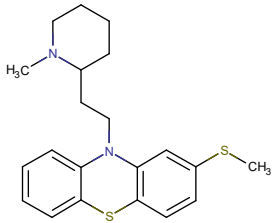
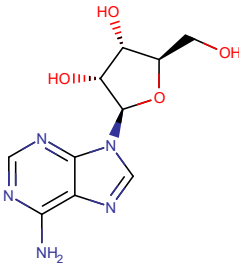
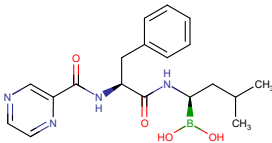
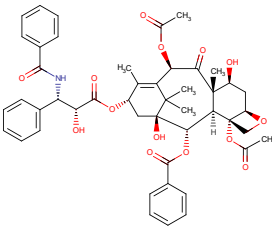
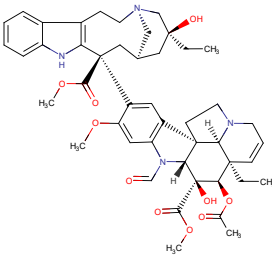
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|----|--------------------|---------|----|---|-------|
| 12 | Clarithromycin | DB01211 | 3 |  | [177] |
| 13 | Clotrimazole | DB00257 | 3 |  | [178] |
| 14 | Ebselen | DB12610 | 1 |  | [179] |
| 15 | Erythromycin | DB00199 | 3 |  | [180] |
| 16 | LY294002 | DB02656 | 24 |  | [181] |
| 17 | Methylprednisolone | DB00959 | 1 |  | [182] |

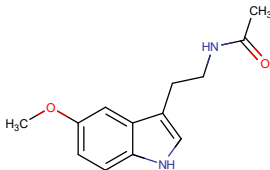
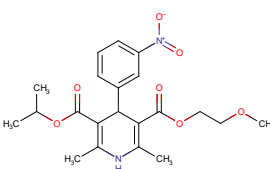
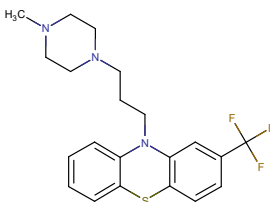
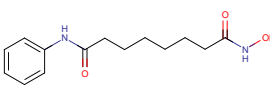
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|----|-------------|---------|---|---|-----------|
| 18 | Rhein | DB13174 | 3 |  | [183] |
| 19 | Rupatadine | DB11614 | 2 |  | [184] |
| 20 | Enalaprilat | DB09477 | 2 |  | [185] |
| 21 | Rutin | DB01698 | 2 |  | [186,187] |
| 22 | Sildenafil | DB00203 | 3 |  | [188] |
| 23 | Wortmannin | DB08059 | 4 |  | [189] |

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|----|----------------|---------|-----|---|-------|
| 24 | Estradiol | DB00783 | 10 |  | [190] |
| 25 | Nocodazole | DB08313 | 1 |  | [160] |
| 26 | Bafilomycin A1 | DB06733 | 1 |  | [160] |
| 27 | Concanamycin A | DB14062 | 1 |  | [158] |
| 28 | Indomethacin | DB00762 | 2 |  | [191] |
| 29 | Fostamatinib | DB12010 | 303 |  | [192] |

| 30 | SR-9011 | DB14014 | 2 |  | [193] |
|-----------------|-----------------|-------------|----------------------|---|-----------|
| 31 | SR-9009 | DB14013 | 2 |  | [193] |
| Dual-modulators | | | | | |
| No. | Drug | DrugBank ID | No. of Known Targets | 2D Structure | Reference |
| 1 | Dexmedetomidine | DB00633 | 1 |  | [194,195] |
| 2 | Emodin | DB07715 | 2 |  | [196,197] |
| 3 | Sitagliptin | DB01261 | 1 |  | [198,199] |

| | | | | | |
|---|--------------------|---------|---|---|-----------|
| 4 | 2-Methoxyestradiol | DB02342 | 5 |  | [200,201] |
| 5 | Ginsenoside Rb | DB06749 | 1 |  | [202,203] |
| 6 | Rosiglitazone | DB00412 | 7 |  | [204,205] |
| 7 | Berberine | DB04115 | 1 |  | [206] |
| 8 | Irinotecan | DB00328 | 9 |  | [207,208] |
| 9 | Esomeprazole | DB00736 | 1 |  | [209] |

| | | | | | |
|----|--------------|---------|----|---|-----------|
| 10 | Thioridazine | DB00679 | 6 |  | [210] |
| 11 | Adenosine | DB00640 | 4 |  | [211] |
| 12 | Bortezomib | DB00188 | 2 |  | [212,213] |
| 13 | Paclitaxel | DB01229 | 6 |  | [214,215] |
| 14 | Vincristine | DB00541 | 2 |  | [216,217] |
| 15 | Calcium | DB01373 | 20 | Ca | [166,218] |

| | | | | | |
|----|-----------------|---------|----|---|-----------|
| 16 | Lithium | DB01356 | 4 | Li^+ | [219,220] |
| 17 | Melatonin | DB01065 | 10 |  | [159] |
| 18 | Nimodipine | DB00393 | 10 |  | [221,222] |
| 19 | Trifluoperazine | DB00831 | 6 |  | [223,224] |
| 20 | Vorinostat | DB02546 | 5 |  | [225,226] |

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