|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Antibacterial | Antibacterial target type | Antifungal | Antitumor or Cytotoxic | Other Activity | Reference(s) |
| abyssomicin | yes | gram pos |  |  |  | 1 |
| aurafuron |  |  | yes | yes |  | 2 |
| aureothin | yes | gram pos, gram neg | yes |  |  | 3 |
| avilamycin | yes | gram pos |  |  |  | 4 |
| bafilomycin | yes | gram pos | yes |  |  | 5,6 |
| chlorothricin | yes | gram pos |  |  |  | 7 |
| erythromycin | yes | gram pos, gram neg |  |  |  | 8 |
| Kedarcidin | yes | gram pos |  | yes |  | 10 |
| lactimidomycin |  |  | yes | yes |  | 11 |
| neocarzinostatin | yes | gram pos |  | yes |  | 12 |
| nystatin |  |  | yes |  |  | 13 |
| pactamycin | yes | gram pos, gram neg | yes | yes |  | 14 |
| salinomycin | yes | gram pos |  |  |  | 15 |
| soraphen |  |  | yes |  |  | 16 |
| spirangien |  |  | yes | yes |  | 17 |
| stambomycin | yes | gram pos |  | yes |  | 18 |
| stigmatellin |  |  | yes |  |  | 19 |
| tautomycetin |  |  | yes | yes |  | 20 |
| tautomycin |  |  | yes | yes |  | 20 |
| tiacumicin | yes | gram pos |  |  |  | 21 |
| 9-methylstreptimidone |  |  | yes | yes |  | 22 |
| bongkrekic acid |  |  | yes | yes |  | 23 |
| cycloheximide | no |  | yes |  |  | 24,25 |
| difficidin | yes | gram neg |  |  |  | 26 |
| migrastatin |  |  | yes | yes |  | 11 |
| elansolid | yes | gram pos |  | yes |  | 27 |
| etnangien | yes | gram pos |  |  |  | 27 |
| macrolactin | yes | gram pos | yes | yes |  | 28 |
| sorangicin | yes | gram pos, gram neg |  |  |  | 30 |
| asukamycin | yes | gram pos | yes | yes |  | 31,32 |
| saxitoxin |  |  |  |  | neurotoxin | 33 |
| anatoxin |  |  |  |  | neurotoxin | 34 |
| actinorhodin | yes | gram pos |  |  |  | 36 |
| alnumycin | yes | gram pos |  | yes |  | 37 |
| aranciamycin | yes | gram pos |  | yes |  | 39,40 |
| arenimycin | yes | gram pos |  | yes |  | 41 |
| arimetamycin |  |  |  | yes |  | 42 |
| arixanthomycin | yes | gram pos |  | yes |  | 43 |
| Auricin | yes | gram pos |  |  |  | 44 |
| benastatin | yes | gram pos |  |  |  | 45 |
| chartreusin | yes | gram pos |  | yes |  | 46 |
| chromomycin | yes | gram pos | yes | yes |  | 47 |
| cinerubin | yes | gram pos |  | yes |  | 48,49 |
| colabomycin | yes | gram pos |  |  |  | 50 |
| elloramycin |  |  |  | yes |  | 51 |
| enterocin | yes | gram pos |  |  |  | 52 |
| arthrofactin |  |  |  |  | surfactant | 53 |
| aeruginosin |  |  |  |  | Protease inhibitor | 54 |
| fredericamycin | yes | gram pos | yes | yes |  | 55 |
| granaticin | yes | gram pos |  |  |  | 56 |
| grincamycin |  |  |  | yes |  | 57 |
| griseorhodin |  |  |  | yes |  | 58 |
| arylomycin | yes | gram pos, gram neg |  |  |  | 59 |
| bromoalterochromide | yes |  |  | yes |  | 60 |
| landomycin | yes |  |  | yes |  | 61 |
| lomaiviticin | yes | gram pos |  | yes |  | 62 |
| mithramycin | yes | gram pos |  | yes |  | 63 |
| nogalamycin | yes | gram pos |  | yes |  | 64 |
| oviedomycin |  |  |  | yes |  | 65 |
| rabelomycin | yes | gram pos |  |  |  | 66 |
| resistomycin | yes | gram pos, gram neg | yes | yes |  | 67 |
| saquayamycin | yes | gram pos |  | yes |  | 68 |
| SF2575 | yes | gram pos |  | yes |  | 69 |
| steffimycin | yes | gram pos |  | yes |  | 70 |
| tetarimycin | yes | gram pos |  |  |  | 71 |
| tetracenomycin | yes | gram pos |  | yes |  | 72 |
| cetoniacytone |  |  |  | yes |  | 73 |
| A40926 | yes | gram pos, gram neg |  |  |  | 74 |
| A-47934 | yes | gram pos |  |  |  | 75 |
| myxoprincomide |  |  |  |  | predation | 76 |
| orfamide |  |  | yes |  | Insecticide, surfactant | 77 |
| ristomycin | yes | gram pos |  |  |  | 79 |
| serobactin |  |  |  |  | siderophore | 80 |
| sessilin |  |  | yes |  |  | 27 |
| shinorine |  |  |  |  | UV protection | 81 |
| stenothricin | yes | gram pos, gram neg |  |  |  | 82 |
| taromycin | yes | gram pos |  |  |  | 83 |
| teicoplanin | yes | gram pos |  |  |  | 84 |
| thanamycin |  |  | yes |  |  | 85 |
| thiocoraline | yes | gram pos |  | yes |  | 86 |
| tolaasin |  |  | yes |  |  | 87 |
| valinomycin | yes | gram pos | yes | yes |  | 88 |
| griseoviridin | yes | gram pos | yes |  |  | 89 |
| WLIP | yes | gram pos | yes |  |  | 27,90 |
| xantholysin | yes | gram pos,  gram neg | yes |  |  | 91 |
| Xenoamicin | no |  | no |  | Anti-plasmodium | 92 |
| bottromycin | yes | gram pos |  |  |  | 93 |
| prenylagaramide | no |  |  |  |  | 94 |
| tenuecyclamide | yes |  |  |  |  | 95 |
| trunkamide |  |  |  | yes |  | 96 |
| aeruginosamide |  |  |  | yes |  | 97 |
| circularin | yes |  |  |  |  | 98 |
| cinnamycin | yes | gram pos |  |  |  | 99 |
| phenalinolactone | yes | gram pos |  |  |  | 100 |
| 2-methylisoborneol |  |  |  |  | Taste/odor | 101 |
| geosmin |  |  |  |  | Taste/odor | 101 |
| lactimidomycin |  |  | yes | yes |  | 11 |
| hassallidin |  |  | yes |  |  | 102 |
| eponemycin |  |  |  | yes |  | 103 |
| malleobactin |  |  |  |  | siderophore | 104 |
| hormaomycin | yes | gram pos |  |  |  | 105 |
| luminmycin |  |  |  | yes |  | 106 |
| fimsbactin |  |  |  |  | siderophore | 107 |
| cichofactin | yes |  | yes |  |  | 108 |
| anabaenopeptin |  |  |  |  | Protease inhibitor | 109 |
| leupyrrin |  |  | yes |  |  | 110 |
| massetolide | yes |  | yes |  |  | 111,112 |
| lyngbyatoxin |  |  |  | yes |  | 113 |
| cereulide |  |  |  |  |  | 114 |
| epoxomicin |  |  |  | yes |  | 115 |
| grincamycin |  |  |  | yes |  | 116 |
| cephamycin | yes | gram pos, gram neg |  |  |  | 117 |
| CDA | yes | gram pos |  |  |  | 118 |
| entianin | yes | gram pos |  |  |  | 119 |
| epilancin | yes | gram pos |  |  |  | 120 |
| ericin | yes | gram pos |  |  |  | 121 |
| geobacillin | yes | gram pos |  |  |  | 122 |
| haloduracin | yes | gram pos |  |  |  | 123 |
| lacticin | yes | gram pos |  |  |  | 124 |
| macedocin | yes | gram pos |  |  |  | 125 |
| microbisporicin | yes | gram pos |  |  |  | 126 |
| nisin | yes | gram pos |  |  |  | 127 |
| planosporicin | yes | gram pos |  |  |  | 83 |
| SapB |  |  |  |  | morphogenesis | 128 |
| subtilin | yes | gram pos |  |  |  | 129 |
| subtilomycin | yes | gram pos, gram neg | yes |  |  | 130 |
| clostridiolysin |  |  |  |  | toxin | 131 |
| streptolysin |  |  |  | yes |  | 132 |
| plantazolicin | yes | gram pos |  |  |  | 133 |
| cypemycin | yes | gram pos |  | yes |  | 134 |
| grisemycin | no |  |  |  |  | 135 |
| microviridin |  |  |  |  | Protease inhibitor | 136 |
| polytheonamide |  |  |  | yes |  | 137 |
| sporulation killing factor | yes | gram pos |  |  |  | 138 |
| cyclothiazomycin |  |  | yes |  |  | 139 |
| GE2270 | yes | gram pos |  |  |  | 140 |
| thiocillin | yes | gram pos |  |  |  | 141 |
| thiomuracin | yes | gram pos |  |  |  | 142 |
| TP-1161 | yes | gram pos |  |  |  | 143 |
| amylocyclicin | yes | gram pos |  |  |  | 144 |
| lactocillin | yes | gram pos |  |  |  | 145 |
| welwitindolinone | yes |  | yes | yes |  | 95 |
| cyclooctatin |  |  |  |  | Inhibitor of lysophospholipase | 146 |
| validamycin | yes |  | yes |  |  | 147 |
| moenomycin | yes | gram pos |  |  |  | 148 |
| cepacin |  |  |  |  | Biofilm formation | 149 |
| methylarcyriarubin |  |  |  | yes |  | 150 |
| physostigmine |  |  |  |  | toxin | 151 |
| rebeccamycin | yes | gram pos | yes | yes |  | 152 |
| violacein | yes | gram pos |  | yes |  | 153,154 |
| clorobiocin | yes | gram pos |  |  |  | 155 |
| coumermycin | yes | gram pos, gram neg |  |  |  | 156 |
| APE Ec |  |  |  |  | Antioxidant | 157 |
| APE Vf |  |  |  |  | antioxidant | 157 |
| alanylclavam | yes |  | yes |  |  | 158 |
| clavam | yes |  | yes |  |  | 158 |
| Clavulanic acid | yes | gram pos, gram neg |  |  | Beta-lactamase inhibitor | 158 |
| thienamycin | yes | gram pos, gram neg |  |  |  | 27 |
| Gamma-butyrolactone |  |  |  |  | signaling | 159 |
| tunicamycin | yes | gram pos | yes |  |  | 161 |
| bromophenols |  |  |  | yes |  | 163 |
| caryoynencin | yes |  | yes |  |  | 27 |
| chloramphenicol | yes | gram pos, gram neg |  |  |  | 164 |
| desosamine | yes |  |  |  |  | 165 |
| mitomycin |  |  |  | yes |  | 166 |
| promysalin | yes | gram pos, gram neg |  |  |  | 167 |
| endophenazine | yes | gram pos, gram neg | yes |  |  | 168 |
| fosfomycin | yes | gram pos,  gram neg |  |  |  | 169 |
| desferrioxamine |  |  |  |  | siderophore | 170 |
| petrobactin |  |  |  |  | siderophore | 171 |
| staphyloferrin |  |  |  |  | siderophore | 172 |
| α-galactosylceramide |  |  |  |  | CD1d agonist | 173 |
| napsamycin | yes | gram pos |  |  |  | 174 |
| amicetin | yes | gram pos, gram neg |  |  |  | 176 |
| ajudazol |  |  | yes |  |  | 177 |
| althiomycin | yes | gram pos, gram neg |  |  |  | 178 |
| andrimid | yes | gram pos, gram neg |  |  |  | 179 |
| antimycin |  |  | yes | yes |  | 180 |
| barbamide |  |  |  | yes |  | 181 |
| bleomycin |  |  |  | yes |  | 166 |
| burkholdac |  |  |  | yes |  | 182 |
| C-1027 | yes | gram pos |  | yes |  | 183 |
| calyculin |  |  |  | yes |  | 184 |
| chondramide |  |  |  | yes |  | 185 |
| chondrochloren | yes | yes |  |  |  | 27 |
| cinnabaramide |  |  |  | yes |  | 186 |
| collismycin | yes | yes |  |  |  | 188 |
| cryptophycin |  |  | yes | yes |  | 189 |
| curacin |  |  |  | yes |  | 181 |
| cylindrospermopsin |  |  |  | yes |  | 190 |
| didemnin |  |  |  | yes |  | 191 |
| frontalamide |  |  | yes |  |  | 193 |
| hectochlorin |  |  | yes | yes |  | 194 |
| jamaicamide |  |  |  |  | toxin | 195 |
| lipomycin | yes | gram pos |  |  |  | 196 |
| lobophorin | yes | gram pos |  | yes |  | 7 |
| lymphostin |  |  |  |  | immunosuppressant | 197 |
| maduropeptin | yes | gram pos |  |  |  | 198 |
| melithiazol |  |  | yes | yes |  | 199 |
| micacocidin | yes |  |  |  |  | 200 |
| microcystin |  |  |  | yes |  | 201 |
| microsclerodermin |  |  | yes |  |  | 202 |
| myxochromide | no |  | no |  |  | 203 |
| myxothiazol |  |  | yes | yes |  | 204 |
| myxovirescin | yes | gram pos, gram neg |  |  |  | 205 |
| nostopeptolide |  |  |  |  | differentiation | 206 |
| nostophycin |  |  |  | yes |  | 207 |
| pellasoren |  |  |  | yes |  | 208 |
| pyralomicin | yes | gram pos |  |  |  | 209 |
| salinosporamide |  |  |  | yes |  | 210 |
| spiruchostatin |  |  | yes | yes |  | 211 |
| streptolydigin | yes | gram pos |  |  |  | 212 |
| tallysomycin |  |  |  | yes |  | 213 |
| thuggacin | yes | gram pos |  |  |  | 214 |
| tirandamycin | yes | gram pos |  |  |  | 215 |
| xenocoumacin | yes | gram pos, gram neg |  |  |  | 216 |
| zeamine | yes | gram pos, gram neg |  |  |  | 217 |
| zorbamycin |  |  |  | yes |  | 218 |
| polyketomycin | yes | gram pos |  | yes |  | 219 |
| cylindrocyclophane |  |  |  | yes |  | 220 |
| kendomycin | yes | gram pos, gram neg |  | yes |  | 221 |
| chivosazol |  |  | yes | yes |  | 222 |
| kirromycin | yes | gram pos, gram neg |  |  |  | 223 |
| simocyclinone | yes | gram pos |  | yes |  | 224 |
| liposidomycin | yes | gram pos |  |  |  | 83 |
| napyradiomycin | yes | gram pos |  |  |  | 83 |
| merochlorin | yes | gram pos |  |  |  | 225 |
| bacillaene | yes | gram neg |  |  |  | 226 |
| bacillomycin |  |  | yes |  |  | 227 |
| fengycin |  |  | yes |  |  | 229 |
| kalimantacin | yes | gram pos |  |  |  | 230 |
| leinamycin | yes | gram pos, gram neg |  | yes |  | 231 |
| malleilactone | yes | gram pos |  | yes |  | 232 |
| onnamide |  |  |  | yes |  | 233 |
| pederin |  |  |  | yes |  | 234 |
| psymberin |  |  |  | yes |  | 235 |
| rhizopodin |  |  |  | yes |  | 236 |
| rhizoxin |  |  |  | yes |  | 237 |
| thailanstatin |  |  |  | yes |  | 238 |
| divergolide | yes |  |  | yes |  | 239,240 |
| burkholderic acid |  |  |  | yes |  | 241 |
| ambiguine | yes | gram pos | yes | yes |  | 242 |
| taxlllaid |  |  |  |  | Anti-plasmodium |  |
| marinacarboline |  |  |  | yes |  | 243 |
| A201A | yes | gram pos, gram neg |  |  |  | 83 |
| platensimycin | yes | gram pos |  |  |  | 244 |
| Cyclothiazomycin B | yes | gram pos | yes |  |  | 245 |
| Cyclothiazomycin C | yes | gram pos |  |  |  | 245 |
| brabantamide |  |  | yes |  |  |  |
| pamamycin | yes | gram pos | yes | yes |  | 247,248 |
| fusaricidin |  |  | yes |  |  |  |
| polymyxin | yes | gram neg |  |  |  | 249 |
| cacibiocin | no |  |  |  |  | 250 |
| platencin | yes | gram pos |  |  |  | 244 |
| marinopyrrole | yes | gram pos |  |  |  | 251 |
| nonadecene |  |  |  |  | cold stress | 252 |
| heptadecene |  |  |  |  | cold stress | 252 |
| livipeptin |  |  |  |  | Protease inhibitor | 253 |
| Piericidin a1 |  |  | yes | yes |  | 254 |
| Clostridiolysin s |  |  |  | yes |  | 131 |
| Listeriolysin s |  |  |  | yes |  | 255 |
| Chlorizidine a |  |  |  | yes |  | 256 |
| streptomonomicin | yes | gram pos |  |  |  | 257 |
| mensacaricin |  |  |  | yes |  | 258 |
| UK-68,597 | yes | gram pos |  |  |  | 259 |
| Rishirilide b |  |  |  |  | alpha2-macroglobulin inhibitor | 260 |
| bacilysin | yes | gram pos, gram neg | yes |  |  | 262 |
| bacillibactin |  |  |  |  | siderophore | 263 |
| nannocystin |  |  | yes | yes |  | 265 |
| marinophenazine |  |  |  | yes |  | 266 |
| retimycin |  |  |  | yes |  | 268 |
| salinamide | yes | gram pos, gram neg |  |  |  | 83 |
| pseudopyronine | yes | gram pos | yes | yes |  | 269 |
| flavecins | yes | gram pos |  |  |  | 270 |
| rakicidin |  |  |  | yes |  | 271 |
| BE-43547 A1-C2 |  |  |  | yes |  | 272 |
| BE-54017 |  |  |  | yes |  | 273 |
| cladoniamide |  |  |  | yes |  | 274 |
| borregomycin |  |  |  | yes |  | 273 |
| erdasporine |  |  |  | yes |  | 275 |
| lazarimide |  |  |  | yes |  | 276 |
| JBIR-100 | yes | gram pos | yes |  |  | 6 |
| argimycin | yes |  |  |  |  | 277 |
| ikarugamycin | yes | gram pos | yes |  |  | 83 |
| obafluorin | yes |  |  |  |  | 278 |
| warkmycin | yes | gram pos |  | yes |  | 279 |
| cervimycin | yes | gram pos |  |  |  | 280 |
| cystargolide |  |  |  | yes |  | 281 |
| belactosin |  |  |  | yes |  | 282 |
| actinonin | yes | gram pos, gram neg |  |  |  | 283 |
| matlystatin |  |  |  |  | Collagenase inhibitor | 284 |
| aculeximycin | yes | gram pos, gram neg | yes |  |  | 285 |
| ambruticin |  |  | yes |  |  | 286 |
| amphotericin |  |  | yes |  |  | 287 |
| Subtilosin a | yes | gram pos, gram neg |  |  |  | 288 |
| angolamycin | yes |  |  |  |  | 289 |
| ansamitocin |  |  |  | yes |  | 290 |
| Megacin | yes | Gram pos |  |  |  | 292 |
| apoptolidin |  |  |  | yes |  | 293 |
| avermectin |  |  |  | yes |  | 294 |
| calicheamicin | yes | Gram pos, gram neg | yes | yes |  | 296 |
| candicidin |  |  | yes |  |  | 297 |
| chalcomycin | yes | Gram pos |  |  |  | 298 |
| Concanamycin a |  |  |  | yes |  | 299 |
| cremimycin | yes | Gram pos |  |  |  | 300 |
| E-837 |  |  | yes |  |  | 301 |
| ECO-02301 |  |  | yes |  |  | 301 |
| ebelactone |  |  | yes |  |  | 302 |
| elaiophylin |  |  |  | yes |  | 303 |
| FD-891 |  |  |  | yes |  | 304 |
| filipin |  |  | yes |  |  | 305 |
| fostriecin |  |  |  | yes |  | 306 |
| geldanamycin |  |  | yes | yes |  | 307 |
| Gephyronic acid |  |  | yes | yes |  | 308 |
| herbimycin |  |  |  | yes | herbicide | 309 |
| hygrocin | yes |  | yes |  |  | 310 |
| incednine |  |  |  | yes |  | 311 |
| jerangolid |  |  | yes |  |  | 313 |
| kijanimicin | yes | Gram pos |  |  |  | 314 |
| laidlomycin | yes | Gram pos |  | yes |  | 315 |
| lankamycin | yes | Gram pos |  | yes |  | 316,317 |
| lasalocid | yes | Gram pos |  |  |  | 318 |
| marineosin |  |  |  | yes |  | 319 |
| megalomicin | yes | Gram pos, gram neg |  |  |  | 320 |
| midecamycin | yes | Gram pos, gram neg |  |  |  | 321 |
| monensin | yes | Gram pos |  |  | Ionophore, antiparasite | 322 |
| mycinamicin | yes | Gram pos |  |  |  | 323 |
| mycolactone |  |  |  | yes | immunosuppressive | 324 |
| nanchangmycin | yes |  |  |  |  | 325 |
| natamycin |  |  | yes |  |  | 326 |
| neocarzilin |  |  |  | yes |  | 328 |
| niddamycin | yes | Gram pos |  |  |  | 329 |
| nystatin-like Pseudonocardia polyene |  |  | yes |  |  | 330 |
| oligomycin |  |  | yes | yes |  | 331 |
| Phoslactomycin b |  |  | yes | yes |  | 332 |
| pimaricin |  |  | yes |  |  | 333 |
| pladienolide |  |  |  |  | yes | 334 |
| pyoluteorin |  |  | yes |  |  | 335 |
| pyrrolomycin | yes | Gram pos |  |  |  | 336 |
| quartromicin |  |  |  |  | Antiviral | 337 |
| reveromycin |  |  | yes |  |  | 338 |
| rifamycin | yes | Gram pos, gram neg |  |  |  | 339,340 |
| rimocidin |  |  | yes |  |  | 341 |
| rubradirin | yes | Gram pos |  |  |  | 344 |
| Salinosporamide a |  |  |  | yes |  | 345 |
| tautomycetin |  |  |  | yes |  | 347 |
| Tetrocarcin a | yes | Gram pos |  | yes |  | 348 |
| tetronasin | yes | Gram pos | yes |  |  | 349 |
| tetronomycin | yes | Gram pos | yes |  |  | 350 |
| vicenistatin |  |  |  | yes |  | 348 |
| basiliskamide |  |  | yes |  |  | 351 |
| tartrolon | yes | Gram pos |  | yes |  | 352 |
| A-74528 |  |  |  |  | antiviral | 353 |
| aclacinomycin |  |  |  | yes |  | 354 |
| azicemicin | yes | Gram pos, gram neg |  |  |  | 355 |
| bryostatin |  |  |  | yes |  | 356 |
| chelocardin | yes | Gram pos, gram neg |  |  |  | 357 |
| chlortetracycline | yes | Gram pos, gram neg |  |  |  | 358 |
| chrysomycin | yes | Gram pos |  | yes |  | 359 |
| cosmomycin |  |  |  | yes |  | 360 |
| curamycin | yes | Gram pos |  |  |  | 361 |
| dactylocycline | yes | Gram pos |  |  |  | 362 |
| daunorubicin |  |  |  | yes |  | 363 |
| doxorubicin |  |  |  | yes |  | 363 |
| erdacin |  |  |  |  | antioxidant | 364 |
| FD-594 | yes | Gram pos |  | yes |  | 365 |
| frenolicin | yes | Gram pos | yes |  |  | 366 |
| griseusin |  |  |  | yes |  | 368 |
| hatomarubigin |  |  |  | yes |  | 369 |
| hedamycin | yes |  |  | yes |  | 370 |
| jadomycin | yes | Gram pos |  |  |  | 371 |
| kiamycin |  |  |  | yes |  | 372 |
| lactomycin | yes | Gram pos |  |  |  | 373 |
| lysolipin | yes | Gram pos, gram neg |  |  |  | 374 |
| macrotetrolide | yes | Gram pos |  |  |  | 322 |
| medermycin | yes | Gram pos, gram neg |  | yes |  | 375 |
| nonactin | yes | Gram pos | yes | yes |  | 377 |
| oxytetracycline | yes | Gram pos, gram neg |  |  |  | 164 |
| pradimicin |  |  | yes |  |  | 378 |
| prodigiosin | yes | Gram pos | yes | yes |  | 379 |
| ravidomycin |  |  | yes | yes |  | 380 |
| rhodomycin | yes | Gram pos |  | yes |  | 381 |
| Spore pigment |  |  |  |  | Pigment | 382 |
| urdamycin | yes | Gram pos |  | yes |  | 383 |
| xantholipin | yes | Gram pos | yes | yes |  | 384 |
| 2,4-diacetylphloroglucinol | yes | Gram pos | yes |  |  | 385 |
| Phenolic lipids |  |  |  |  | Cyst formation | 386 |
| L-2-amino-4-methoxy-trans-3-butenoic acid | yes |  |  | yes |  | 387 |
| A-503083 | yes |  |  |  |  | 388 |
| A54145 | yes | Gram pos |  |  |  | 389 |
| acinetobactin |  |  |  |  | siderophore | 390 |
| acinetoferrin |  |  |  |  | siderophore | 391 |
| actinomycin | yes | Gram pos, gram neg | yes | yes |  | 392-394 |
| amychelin |  |  |  |  | siderophore | 395 |
| anthramycin | yes |  | yes | yes |  | 396,397 |
| aureusimine |  |  |  |  | Virulence factor | 398 |
| bacitracin | yes | Gram pos |  |  |  | 399 |
| balhimycin | yes | Gram pos |  |  |  | 400 |
| capreomycin | yes | Gram pos, gram neg |  |  |  | 401 |
| coelibactin |  |  |  |  | ionophore | 403 |
| coelichelin |  |  |  |  | siderophore | 404 |
| complestatin | Yes | Gram pos |  |  |  | 405 |
| coronatine |  |  |  |  | phytotoxic | 407 |
| corpeptin | yes | Gram pos |  |  |  | 408 |
| daptomycin | yes | Gram pos |  |  |  | 409 |
| echinomycin | yes | Gram pos | yes | yes |  | 410 |
| echoside |  |  |  | yes |  | 411 |
| enduracidin | yes | Gram pos, gram neg |  |  |  | 412 |
| enterobactin |  |  |  |  | siderophore | 413 |
| entolysin |  |  |  |  | Swarming motility | 414 |
| equibactin |  |  |  |  | siderophore | 415 |
| erythrochelin | yes | Gram pos |  |  | siderophore | 416 |
| exochelin |  |  |  |  | Siderophore | 417 |
| friulimicin | yes | Gram pos |  |  |  | 419 |
| fuscachelin |  |  |  |  | Siderophore | 420 |
| GE81112 | yes | Gram pos, gram neg |  |  |  | 421 |
| glycopeptidolipid |  |  |  |  | membrane | 422 |
| gobichelin |  |  |  |  | siderophore | 423 |
| gramicidin | yes | Gram pos, gram neg |  |  |  | 424 |
| heterobactin |  |  |  |  | siderophore | 426 |
| holomycin | yes | Gram pos, gram neg | yes | yes |  | 427,428 |
| indigoidine | yes | Gram neg |  |  |  | 429 |
| JBIR-34 |  |  |  |  | Radical scavanging | 430 |
| kutzneride |  |  | yes |  |  | 431 |
| lichenysin | yes | Gram pos, gram neg |  | yes |  | 433,434 |
| lipstatin |  |  |  |  | Inhibitor of human pancreatic lipase | 435 |
| lysobactin | yes | Gram pos |  |  |  | 436 |
| mangotoxin |  |  |  |  | phytotoxic | 437 |
| mannopeptimycin | yes | Gram pos |  |  |  | 438 |
| mirubactin |  |  |  |  | siderophore | 439 |
| naphthyridinomycin | yes | Gram pos, gram neg |  | yes |  | 440 |
| nocardicin | yes | Gram neg |  |  |  | 441 |
| nodularin |  |  |  |  | phytotoxin | 442 |
| nostocyclopeptide |  |  |  | yes |  | 443 |
| paenibacterin | yes | Gram pos, gram neg |  |  |  | 444 |
| paenibactin |  |  |  |  | siderophore | 445 |
| pelgipeptin | yes | Gram pos, gram neg | yes |  |  | 446,447 |
| plipastatin |  |  | yes |  |  | 448 |
| porothramycin | yes | Gram pos, gram neg |  | yes |  | 449 |
| pseudomonine |  |  |  |  | siderophore | 450 |
| putisolvin | yes |  | yes |  |  | 27,451 |
| pyochelin | yes | Gram pos, gram neg |  |  |  | 452 |
| pyoverdin |  |  |  |  | siderophore | 453 |
| quinocarcin |  |  |  | yes |  | 454 |
| quinomycin | yes | Gram pos |  | yes |  | 455 |
| rhodochelin |  |  |  |  | siderophore | 456 |
| ristocetin | yes | Gram pos, gram neg |  |  |  | 457 |
| safracin |  |  |  | yes |  | 458 |
| Saframycin a |  |  |  | yes |  | 459 |
| scabichelin |  |  |  |  | siderophore | 460 |
| sibiromycin | yes |  |  | yes |  | 397 |
| streptothricin | yes | Gram pos, gram neg |  |  |  | 461 |
| SW-163 | yes | Gram pos |  | yes |  | 462 |
| syringafactin |  |  |  |  | surfactant | 463 |
| Syringolin a |  |  |  | yes |  | 464 |
| syringomycin |  |  |  |  | phytotoxic | 465 |
| syringopeptin |  |  |  |  | virulence | 466 |
| thaxtomin |  |  |  |  | phytotoxic | 467 |
| tilivalline |  |  |  |  | enterotoxin | 468 |
| tomaymycin |  |  |  | yes |  | 469 |
| tridecaptin | yes | Gram neg |  |  |  | 470 |
| triostin a |  |  |  | yes |  | 471 |
| turnerbactin |  |  |  |  | siderophore | 472 |
| tyrocidine | yes | Gram pos |  |  |  | 473 |
| vanchrobactin |  |  |  |  | siderophore | 474 |
| vancomycin | yes | Gram pos |  |  |  | 475 |
| vicibactin |  |  |  |  | siderophore | 476 |
| viomycin | yes |  |  |  |  | 477 |
| vulnibactin |  |  |  |  | siderophore | 478 |
| WAP-8294A2 | yes | Gram pos |  |  |  | 479 |
| yatakemycin |  |  | yes | yes |  | 480,481 |
| yersiniabactin |  |  |  |  | siderophore | 482 |
| Patellamide a |  |  |  | yes |  | 483 |
| trichamide | no |  | no |  |  | 484 |
| Glycocin f | yes | Gram pos |  |  |  | 485 |
| Acidocin b | yes | Gram pos |  |  |  | 486 |
| carnocyclin | yes | Gram pos |  |  |  | 487 |
| garvicin | yes | Gram pos |  |  |  | 488 |
| Gassericin a | yes | Gram pos |  |  |  | 489 |
| uberolysin | yes |  |  |  |  | 490 |
| actagardine | yes | Gram pos |  |  |  | 491 |
| amfs |  |  |  |  | morphogen | 492 |
| bovicin hj50 | yes | Gram pos |  |  | signaling | 493,494 |
| carnolysin | yes | Gram pos |  |  |  | 496 |
| cerecidin | yes | Gram pos |  |  |  | 497 |
| cytolysin | yes | Gram pos |  | yes |  | 498 |
| epicidin | yes |  |  |  |  | 499 |
| gallidermin | yes | Gram pos |  |  |  | 500 |
| lichenicidin | yes | Gram pos |  |  |  | 501 |
| mersacidin | yes | Gram pos |  |  |  | 502 |
| Michiganin a | yes | Gram pos |  |  |  | 503 |
| mutacin | yes |  |  |  |  | 504 |
| nukacin | yes | Gram pos |  |  |  | 505 |
| paenibacillin | yes | Gram pos |  |  |  | 506 |
| paenicidin | yes | Gram pos |  |  |  | 507 |
| pep5 | yes | Gram pos |  |  |  | 508 |
| Ruminococcin a | yes | Gram pos |  |  |  | 509 |
| salivaricin | yes | Gram pos |  |  |  | 510 |
| Smb | yes |  |  |  |  | 511 |
| streptin | yes | Gram pos |  |  |  | 512 |
| Sublancin 168 | yes | Gram pos |  |  |  | 513 |
| Thermophilin 1277 | yes | Gram pos |  |  |  | 514 |
| goadsporin | yes | Gram pos |  |  |  | 515 |
| microcin | yes | Gram neg |  |  |  | 516 |
| astexin | yes | Gram neg |  |  |  | 517 |
| capistruin | yes | Gram neg |  |  |  | 518 |
| lariatin | yes |  |  |  |  | 519 |
| colicin v | yes | Gram neg |  |  |  | 520 |
| marinostatin |  |  |  |  | Protease inhibitor | 521 |
| microviridin k |  |  |  |  | Peptidase inhibitor | 522 |
| thuricin | yes | Gram pos |  |  |  | 523 |
| GE37468 | yes | Gram pos |  |  |  | 524 |
| lactazole | no |  |  |  |  | 525 |
| Micrococcin p1 | yes | Gram pos |  |  |  | 526 |
| nocathiacin | yes | Gram pos |  |  |  | 527 |
| nosiheptide | yes | Gram pos |  |  |  | 527 |
| siomycin | yes | Gram pos, gram neg |  | yes |  | 528 |
| thiostrepton | yes | Gram pos, gram neg |  |  |  | 528 |
| coagulin | yes | Gram pos |  |  |  | 529 |
| Plantaricin w | yes | Gram pos |  |  |  | 530 |
| thuricin | yes | Gram pos |  |  |  | 523 |
| astaxanthin |  |  |  |  | antioxidant | 531 |
| Brasilicardin a |  |  | yes | yes |  | 532 |
| pentalenolactone | yes | Gram pos, gram neg | yes |  |  | 533 |
| zeaxanthin |  |  |  |  | antioxidant | 534 |
| isorenieratene |  |  |  |  | antioxidant | 535 |
| diazepinomicin | yes | Gram pos |  |  |  | 536 |
| acarbose |  |  |  |  | Glucosidase inhibitor | 537 |
| apramycin | yes | Gram pos, gram neg |  |  |  | 538 |
| butirosin | yes | Gram pos, gram neg |  |  |  | 539 |
| fortimicin | yes | Gram pos, gram neg |  |  |  | 540 |
| gentamicin | yes | Gram pos, gram neg |  |  |  | 541 |
| Hygromycin a | yes | Gram pos, gram neg |  |  |  | 542 |
| istamycin | yes | Gram pos, gram neg |  |  |  | 544 |
| jinggangmycin |  |  | yes |  |  | 545 |
| kanamycin | yes | Gram pos, gram neg |  |  |  | 546 |
| Kasugamycin | yes | Gram pos, gram neg | yes |  |  | 547,548 |
| lividomycin | yes | Gram pos, gram neg |  |  |  | 549 |
| neomycin | yes | Gram pos, gram neg |  |  |  | 550 |
| Paromomycin | yes | Gram pos, gram neg | yes |  |  | 551,552 |
| ribostamycin | yes | Gram pos, gram neg |  |  |  | 553 |
| sisomicin | yes | Gram pos, gram neg |  |  |  | 554 |
| spectinomycin | yes | Gram pos, gram neg |  |  |  | 555 |
| streptomycin | yes | Gram pos, gram neg |  |  |  | 556 |
| tobramycin | yes | Gram pos, gram neg |  |  |  | 557 |
| alginate |  |  |  |  | antioxidant | 558 |
| Capsular polysaccharide |  |  |  |  | Extracelluar capsule | 559 |
| Diutan polysaccharide |  |  |  |  | Exopolysaccharide, biofilm formation | 560 |
| emulsan |  |  |  |  | bioemulsifier | 561 |
| exopolysaccharide |  |  |  |  | Protective layer | 562 |
| stewartan |  |  |  |  | Biofilm, virulence factor | 563 |
| gellan |  |  |  |  | biofilm | 564 |
| lipooligosaccharide |  |  |  |  | Membrane, adhesion | 565 |
| lipopolysaccharide |  |  |  |  | membrane | 566 |
| s-layer glycan |  |  |  |  | Cellular envelope | 567 |
| Sphingan |  |  |  |  | Extracelluar capsule | 568 |
| Colanic acid |  |  |  |  | extracellular | 569 |
| xanthan |  |  |  |  | emulsifier | 570 |
| galactoglucan |  |  |  |  | exopolysaccharide | 571 |
| succinoglycan |  |  |  |  | emulsifier | 572 |
| phosphonoglycans |  |  |  |  | exopolysaccharide | 573 |
| AT2433 |  |  |  | yes |  | 574 |
| k-252a |  |  |  |  |  | 575 |
| staurosporine |  |  | yes |  |  | 576 |
| xanthomonadin |  |  |  |  | pigment | 577 |
| tabtoxin |  |  |  |  | phytotoxin | 578 |
| albonoursin | yes | Gram pos |  |  |  | 579 |
| ectoine |  |  |  |  | osmolyte | 580 |
| eicosapentaenoic acid |  |  |  |  | membrane | 581 |
| polyhydroxyalkanoate |  |  |  |  | carbon storage | 582 |
| Teichuronic acid |  |  |  |  | Cell wall | 583 |
| Heterocyst glycolipids |  |  |  |  | Protection against O2 penetration | 584 |
| Mycolic acid |  |  |  |  | Cell envelope | 585 |
| blasticidin | yes | Gram pos, gram neg | yes |  |  | 4,586 |
| polyoxin |  |  | yes |  |  | 588 |
| puromycin | yes | Gram pos, gram neg |  |  |  | 589 |
| toyocamycin |  |  | yes | yes |  | 590 |
| mildiomycin |  |  | yes |  |  | 591 |
| arginomycin | yes | Gram pos | yes |  |  | 592 |
| 3-methylarginine | yes |  |  |  |  | 593 |
| bagremycin | yes | Gram pos, gram neg | yes |  |  | 594 |
| citrulline |  |  |  |  | Arginine metabolism | 595 |
| cycloserine | yes | Gram pos, gram neg |  |  |  | 596 |
| dehydrophos | yes | Gram pos, gram neg |  |  |  | 597 |
| FR-900098 | yes | Gram pos, gram neg |  |  | antimalarial | 598 |
| Heme d1 |  |  |  |  | denitrification | 599 |
| lincomycin | yes | Gram pos |  |  |  | 600 |
| methylenomycin | yes | Gram pos, gram neg |  |  |  | 602 |
| Molybdenum cofactor |  |  |  |  | Nitrogen reduction | 603 |
| phaseolotoxin |  |  |  |  | phytotoxin | 604 |
| PQS |  |  |  |  | Signaling | 605 |
| pyrrolnitrin | yes | Gram pos | yes |  |  | 606 |
| quinolobactin |  |  |  |  | siderophore | 607 |
| rhizocticin |  |  | yes |  |  | 608 |
| T3 toxin |  |  |  |  | neurotoxin | 33 |
| toxoflavin | yes | Gram pos, gram neg |  |  |  | 610 |
| tropodithietic acid | yes | Gram pos, gram neg |  | yes | signaling | 611,612 |
| pyocyanine | yes | Gram pos, gram neg | yes |  |  | 613,614 |
| fosfazinomycin |  |  | yes |  |  | 615 |
| aerobactin |  |  |  |  | siderophore | 616 |
| Desferrioxamin b |  |  |  |  | siderophore | 617 |
| staphylobactin |  |  |  |  | siderophore | 618 |
| vibrioferrin |  |  |  |  | siderophore | 620 |
| A-500359 | yes |  |  |  |  | 621 |
| pacidamycin | yes | Gram neg |  |  |  | 622 |
| Azinomycin b | yes |  |  | yes |  | 624 |
| bactobolin | yes | Gram pos, gram neg | yes | yes |  | 625 |
| Caerulomycin a | yes | Gram pos | yes |  |  | 626 |
| crocacin |  |  | yes | yes |  | 627 |
| Cystothiazole a |  |  | yes | yes |  | 628 |
| dkxanthene |  |  | yes |  |  | 629 |
| epothilone |  |  |  | yes |  | 630 |
| FR901464 |  |  |  | yes |  | 632 |
| guadinomine |  |  |  |  | Anti-infective | 633 |
| jawsamycin |  |  | yes |  |  | 635 |
| locillomycin |  |  | yes |  |  | 636,637 |
| muraymycin | yes | Gram pos |  |  |  | 638 |
| mycobactin |  |  |  |  | siderophore | 639 |
| myxalamid | yes | Gram pos | yes |  |  | 640 |
| Nocobactin na |  |  |  |  | siderophore | 641 |
| Oocydin a |  |  | yes |  |  | 642 |
| paenilamicin | yes | Gram pos | yes | yes |  | 643 |
| polyoxypeptin |  |  |  | yes |  | 644 |
| pyridomycin | yes |  |  |  |  | 645 |
| rapamycin |  |  | yes |  |  | 646 |
| tubulysin |  |  |  | yes |  | 647 |
| zwittermicin a | yes | Gram pos, gram neg | yes |  |  | 648 |
| dynemicin | yes | Gram pos |  | yes |  | 649 |
| tln-05220 | yes | Gram pos |  | yes |  | 650 |
| undecylprodigiosin | yes | Gram pos | yes |  |  | 651 |
| herboxidiene | yes | Gram pos |  | yes |  | 652 |
| kosinostatin | yes | Gram pos, gram neg | yes | yes |  | 653 |
| Cosmomycin d | yes | Gram pos |  | yes |  | 654,655 |
| Aurachin re | yes | Gram pos |  |  |  | 656 |
| albicidin | yes | Gram pos, gram neg | yes |  |  | 658 |
| corallopyronin | yes | Gram pos |  |  |  | 659 |
| enacyloxin | yes | Gram pos, gram neg |  |  |  | 661 |
| iturin |  |  | yes |  |  | 662 |
| lankacidin | yes | Gram pos |  | yes |  | 663 |
| mycosubtilin |  |  | yes |  |  | 664 |
| spliceostatin |  |  |  | yes |  | 666 |
| thiomarinol | yes | Gram pos, gram neg |  |  |  | 667 |
| virginiamycin | yes | Gram pos |  |  |  | 668 |
| himastatin | yes | Gram pos |  | yes |  | 669 |
| puwainaphycin |  |  |  | yes |  | 670 |
| jagaricin |  |  | yes |  |  | 671 |
| pheganomycin | yes |  |  |  |  | 672 |
| taiwachelin |  |  |  |  | siderophore | 673 |
| A-102395 |  |  |  |  | Translocase inhibitor | 174 |
| colistin | yes | Gram neg |  |  |  | 674 |
| thiolutin | yes | Gram pos, gram neg | yes |  |  | 427 |
| hitachimycin | yes | Gram pos | yes | yes |  | 675 |
| desotamide | yes | Gram pos |  |  |  | 676 |
| frankiamicin | yes | Gram pos |  |  |  | 677 |
| akaeolide | yes |  |  | yes |  | 678 |
| indolmycin | yes | Gram pos, gram neg |  |  |  | 679 |
| teixobactin | yes | Gram pos |  |  |  | 680 |
| pseudomycoicidin | yes | Gram pos |  |  |  | 681 |
| albachelin |  |  |  |  | siderophore | 682 |
| nataxazole |  |  |  | yes |  | 683 |
| marformycin | yes |  |  |  |  | 684 |
| PreQ0 base |  |  |  | yes |  | 685 |
| hydroxysporine |  |  | yes | yes |  | 686 |
| reductasporine |  |  | yes |  |  | 686 |
| celesticetin | yes | Gram pos |  |  |  | 687 |
| feglymycin | yes | Gram pos |  |  |  | 689 |
| thiolactomycin | yes | Gram pos, gram neg |  |  |  | 690 |
| chaxamycin | yes | Gram pos, gram neg |  | yes |  | 691 |
| maklamicin | yes | Gram pos |  |  |  | 692 |
| penisin | yes | Gram pos, gram neg |  |  |  | 693 |
| A33853 |  |  |  |  | antiparasitic | 694 |
| cyclizidine |  |  |  | yes |  | 695 |
| 7-prenylisatin | yes | Gram pos |  |  |  | 696 |
| cremeomycin | yes | Gram pos, gram neg | yes | yes |  | 697 |
| chlorotonil | yes |  | yes |  |  | 698 |
| anthracimycin | yes | Gram pos |  |  |  | 699 |
| lomofungin | yes | Gram pos, gram neg | yes | yes |  | 700 |
| lobosamide |  |  |  |  | antiparasitic | 701 |
| viscosin |  |  |  |  | surfactant | 702 |
| aurachin | yes | Gram pos | yes |  |  | 665 |
| myxochelin |  |  |  |  | siderophore | 703 |
| carbamidocyclophane | yes | Gram pos |  | yes |  | 707 |
| ralsolamycin |  |  |  |  | Invasion of fungus | 709 |
| Zunyimycin a | yes | Gram pos |  |  |  | 710 |
| haliamide |  |  |  | yes |  | 711 |
| thienodolin |  |  |  |  | Plant growth regulation | 712 |
| uncialamycin | yes | Gram pos, gram neg |  |  |  | 713 |
| tiancimycin |  |  |  | yes |  | 714 |
| BD-12 | yes | Gram pos, gram neg | yes |  |  | 665 |
| brasilinolide |  |  | yes |  |  | 715 |
| Saprolmycin e |  |  |  |  | antiparasitic | 716 |
| JBIR-76 |  |  |  | yes |  | 717 |
| nucleocidin | Yes | Gram pos, gram neg |  |  |  | 718 |
| cichopeptin |  |  |  |  | phytotoxic | 719 |
| pinensins | yes |  | yes |  |  | 720 |
| lugdunin | yes | Gram pos |  |  |  | 721 |
| phenalamide | yes | Gram pos | yes |  |  | 665 |
| teichomycin | yes | Gram pos, gram neg |  |  |  | 722 |
| aldgamycin | yes | Gram pos |  |  |  | 723 |
| lidamycin | yes | Gram pos |  | yes |  | 724,725 |
| telomycin | yes | Gram pos |  |  |  | 726 |
| bicereucin | yes | Gram pos |  |  |  | 727 |
| xanthoferrin |  |  |  |  | siderophore | 728 |
| dutomycin | yes | Gram pos |  | yes |  | 729,730 |
| cystobactamide | yes | Gram pos, gram neg |  |  |  | 731 |
| griselimycin | yes | Gram pos |  |  |  | 732 |
| nunapeptin |  |  | yes |  |  | 733 |
| streptococcin | yes | Gram pos |  |  |  | 734 |

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