**Molecular Profile and Interactions of Best hits**

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| **Compound**  **(Pubchem CID)** | **Structure and Name** | **Residues Interacted** | **Interaction Types** |
| 118156306 | (3*Z*)-N-hydroxypenta-1,3-diene-2-sulfonamide | ASN A:220, HIS A:220, ASP A:124, ZN A:301, HIS A:250, ZN A:302, HIS A:122, TRP A:93 | Vander waal bonds, carbon-hydrogen bonds, conventional Hydrogen bonds, metal acceptor interactions (ZN), pi-sulfur bonds, pi-sigma bond. |
| 139364956 | (1R,2R)-2-hydroxy cyclopentane-1-sulfonamide | ASN A:220, LEU A:218, LYS A:211, GLY A:219, HIS A:189, HIS A:250, VAL A:73 | Vanderwaal bonds, conventional Hydrogen bonds, carbon-hydrogen bonds, alkyl interactions, pi-alkyl bonds, pi-sulfur bonds, metal acceptor interactions (ZN), pi-donor hydrogen |

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| 141764153 | 2-hydroxypyrrolidine-1-sulfonamide | LYS A:211, LEU A:218, ASN A:220, HIS A:189, HIS A:122, HIS A:250, GLN A:123, ZN A:301, ZN A:302, TRP A:93, ASP A:124, VAL A:73, MET A:67 | Vanderwaal bonds, conventional hydrogen bonds, carbon-hydrogen bonds, metal acceptor interactions (ZN), pi-sulfur bonds, pi-alkyl bonds, alkyl bonds, pi donor hydrogen bond |
| 156030339 | (1R,2R)-2-methylcyclopentane-1-sulfonamide | LYS A:211, SER A:217, GLY A:219, HIS A:250, HIS A:189, ASN A:220, TRP A:93, VAL A: 73, MET A:67, ASP A: 124, ZN A:301, ZN A: 302, LEU A:218 | Vanderwaal bonds, conventional hydrogen bonds, alkyl bonds, pi-alkyl bonds, carbon-hydrogen bonds, pi-sulfur bonds, metal acceptor interactions (ZN) |
| 156530860 | 2-fluorothiophene-3-sulfonamide | HIS A:250, HIS A:189, HIS A:122, ASP A:124, TRP A:93, ZN A:301, ZN A:302, ASN A: 220, VAL A: 73, TRP A:93, GLN A:123 | Vanderwaal bonds, conventional hydrogen bonds, carbon-hydrogen bonds, pi-alkyl bonds, pi-sulfur bonds, pi-anion bonds, metal acceptor interactions (ZN), halogen interactions(F), pi-pi stacked bonds, pi-pi T-shaped, pi-cation bonds. |
| 45080568 | 2-oxo-1,3-oxazolidine-3-sulfonamide | GLN A:123, ASP A: 124, LYS A:211, HIS A:250, HIS A:189, HIS A:120, ASN A:220, LEU A:218, ZN A:301, ZN A:302, TRP A:93 | Vanderwaal bonds, conventional Hydrogen bonds, carbon-hydrogen bonds, pi-sulfur bonds, metal acceptor interactions (ZN). |
| 67028586 | 2-oxo-1,3-oxazole-3-sulfonamide | ZN A:301, ZN A:302, LYS A:211, HIS A:189, HIS A:122, HIS A:250, ASP A:124, ASN A:220, GLN A:123, TRP A:93, VAL A:73, MET A:67 | Vanderwaal bonds, conventional Hydrogen bonds, carbon-hydrogen bonds, pi-sulfur bonds, pi-pi T shaped, metal acceptor interactions (ZN), pi-alkyl bond, pi-anion bonds, pi-pi stacked bonds, pi-cation bond |
| 7370 | Benzenesulfonamide | TRP A:93, VAL A:73, ASP A:124, ASN A:220, HIS A:189, HIS A:122, HIS A:250, ZN A:301, ZN A:302, GLN A:123, LYS A:211, LEU A:218 | Vanderwaal bonds, conventional Hydrogen bonds, carbon-hydrogen bonds, metal acceptor interactions (ZN), pi-sulfur bonds, pi-pi T shaped bonds, alkyl bonds, pi-pi stacked, pi-cation bonds, pi-anion bond, pi donor hydrogen bond. |
| 75536 | Cyclohexanesulfonamide | TRP A:93, HIS A:189, HIS A:122, HIS A:250, ASN A: 220, ASP A:124, ZN A:301, ZN A:302, VAL A:73, LYS A:211, LEU A:218 | Vanderwaal bonds, conventional Hydrogen bonds, carbon-hydrogen bonds, pi-alkyl bonds, pi-sulfur bonds, alkyl bonds, metal acceptor interactions (ZN), pi-sigma bonds. |
| 46175386 | N-hydroxyfuran-2-sulfonamide | LYS A:211, ASN A:220, HIS A:250, HIS A:189, HIS A:122, ASP A:124, ZN A:301, ZN A:302, VAL A:73, TRP A:93, CYS A:208, LEU A:218 | Vanderwaal bonds, conventional Hydrogen bonds, pi-cation bond, pi-anion bonds, pi-pi stacked bonds, pi-alkyl bonds, carbon-hydrogen bonds, pi-sulfur bonds, metal acceptor interacions(ZN), pi-pi T-shaped |
| 65050329 | 2-methylcyclopentane-1-sulfonamide | LYS A:211, SER A:217, GLY A:219, HIS A:189, HIS A:122, HIS A:250, ASP A:124, GLN A:123, TRP A:93, ASN A:220, VAL A:73, MET A:67, ZN A:301, ZN A:302 | Vanderwaal bonds, conventional hydrogen bonds, carbon-hydrogen bonds, pi-sulfur bonds, metal acceptor interactions(ZN), pi-alkyl bonds, alkyl bonds, pi donor hydrogen bond, pi-sigma bond. |