



BioSolveIT
expect actives!

Evaluating C-S-D with mini REAL Space

2025-12-18

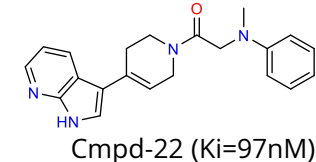
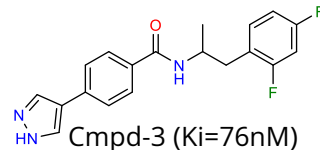
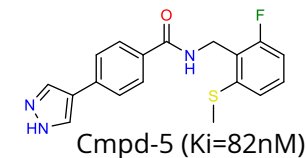
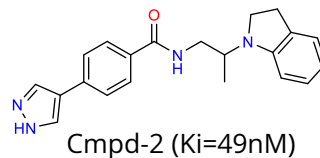
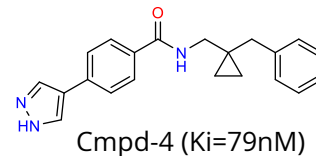
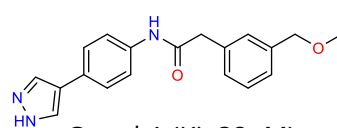


ROCK1

Step-by-step

- ◆ Load 5kkt
- ◆ Extract ligand 6U2_A_501
- ◆ Sphere constraints:
 - ◆ Donor (1.0Å) on N29 of ligand
 - ◆ Acceptor (1.0Å) on N36 of ligand
 - ◆ Both optional, 1 need to fit
- ◆ Start C-S-D with miniREAL_100k_2025-12
- ◆ Anchoring: 5 poses each + sphere constraints activated
- ◆ Sort by HYDE score, filter* and select top 500 synthons
- ◆ Extension-1: 5 poses each
- ◆ Sort by HYDE score, filter* and select top 500
- ◆ Extension-2: 5 poses each
- ◆ Sort by HYDE score, filter* and select top 500

ROCK1 actives included in mini REAL



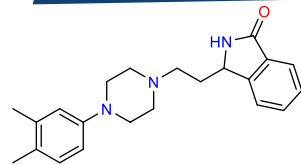
from [Beroza et al. 2022](#)

DRD4

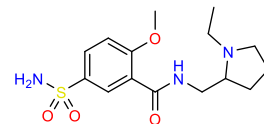
Step-by-step

- ◆ Load 5WIU
- ◆ Extract ligand AQD_A_1201
- ◆ Sphere constraints:
 - ◆ Donor interaction contact (1.0Å) on Asp_A_115 sidechain O
 - ◆ Hydrophobic (3.0Å) on CAV of ligand
 - ◆ Exclude Linker constraint (4.5Å) on CAV of ligand
- ◆ Start C-S-D with miniREAL_100k_2025-12
- ◆ Anchoring: 5 poses each + sphere constraints activated
- ◆ Sort by HYDE score, filter* and select top 500 synthons
- ◆ Extension-1: 5 poses each
- ◆ Sort by HYDE score, filter* and select top 500 synthons
- ◆ Extension-2: 5 poses each
- ◆ Sort by HYDE score, filter* and select top 500 synthons

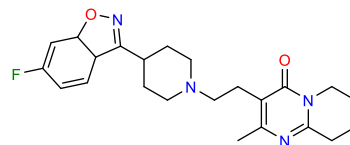
DRD4 antagonists included in miniREAL



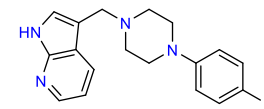
PD-168568 (Ki=8.8nM)



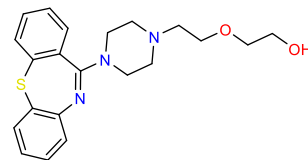
Sulpiride (Ki=2μM)



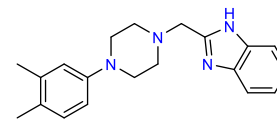
Risperidone (Ki=7.3nM)



L-750,667 (KI=0.51 nM)



Quetiapine (Ki=2μM)



A-381393 (Ki=1.5nM)