

### Mcule - 'High Solubility Fragments' library

# The library was created from Mcule's database with the following physicochemical property restrictions:

Property	Min	Max
Molar mass	80	275
H-bond acceptors	1	6
H-bond donors	0	3
Rotatable bonds	0	3
LogP	-1.7	4.5
Solubility in DMSO (mM)*	200	-
Solubility in PBS (mM)*	1	-

<sup>\*</sup>Based on experimental data of chemical suppliers.

# It was further filtered by substructure filters Including PAINS<sup>1,2</sup> to avoid promiscuous functional groups.

It contains the molecules in SDF format with fields regarding the solubility data of the molecules.

If you would prefer another molecular format or further filtering - feel free to contact us at <a href="mailto:support@mcule.com">support@mcule.com</a>.

<sup>1,</sup> Baell, J. B. & Holloway, G. A. New Substructure Filters for Removal of Pan Assay Interference Compounds (PAINS) from Screening Libraries and for Their Exclusion in Bioassays. J. Med. Chem. 2719–2740 (2010). 2, Saubern, S., Guha, R. & Baell, J. B. KNIME Workflow to Assess PAINS Filters in SMARTS Format. Comparison of RDKit and Indigo Cheminformatics Libraries. Mol. Inform. 30, 847–850 (2011).



#### Our professional laboratory services include

- Transferring samples to plates/vials as solid or DMSO solution
- Solubility characterization
- Temperature controlled shipping
- Quality control via LC-MS & NMR (on demand)

#### Please also reach out to our cheminformatics experts with projects related to

- Screening library building/expansion
- Generation of synthetically feasible chemical spaces based on your building blocks
- Filtering the Mcule database based on your criteria