UORSY
unlimited discovery opportunities

UORSY General Fragments

Fragment-based drug discovery has become a widespread strategy in both pharmaceutical industry and academia. One of the advantages of the approach is its ability to cover much of 10^{60} chemical space with a relatively small library. It has been 20 years of investigation and around 30 drug candidates derived from the fragments. Nevertheless, only two approved drugs have hit the marked up to date.

Results of fragment-based screening strongly rely on the quality of compounds. Understanding this fact, we created our general set of fragment-like molecules. It contains compounds that comply with "Rule of Three" have favorable physicochemical profiles (Figure 1, left) and are free of PAINS and "overused" motifs. Comparative analysis to the commercially available fragments shows novelty and uniqueness of **UORSY general fragments** (Figure 1, right).

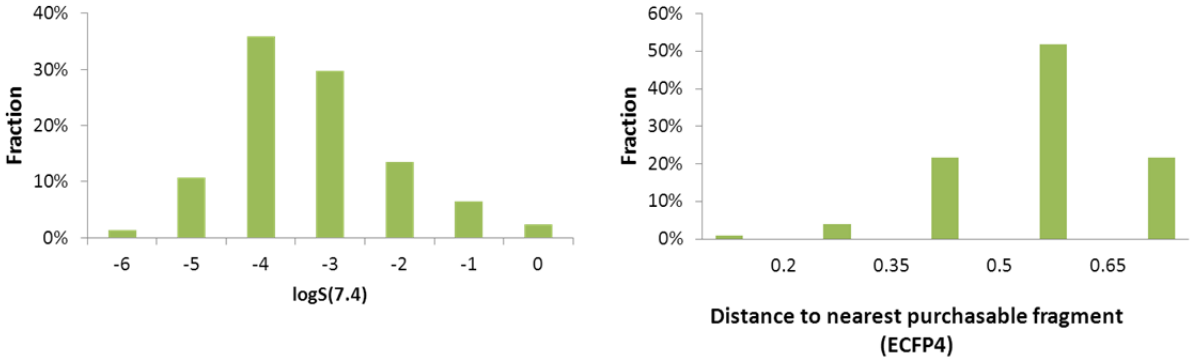
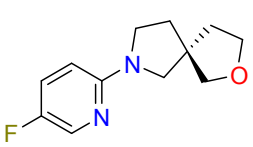


Figure 1. Distribution of calculated $logS_{7.4}$ (left) and similarity analysis (right) of **UORSY general fragments**.



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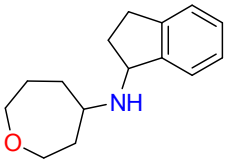

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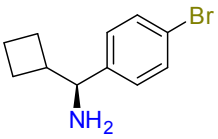

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Physicochemical profiles of **UORSY general fragments**:
100<MW<300; HbA≤3; HbD≤3; logP≤3; RotBonds≤3.

UORSY general fragments are available in stock and could be delivered within 2 weeks in any customer-preferred format: as powders, dry films or DMSO solutions formatted in vials, 96 or 384-well plates. All compounds have a minimum purity of 90% assessed by ^{1}H NMR; analytical data is provided.

For more information, please contact us at **screenlibs@uorsy.com**