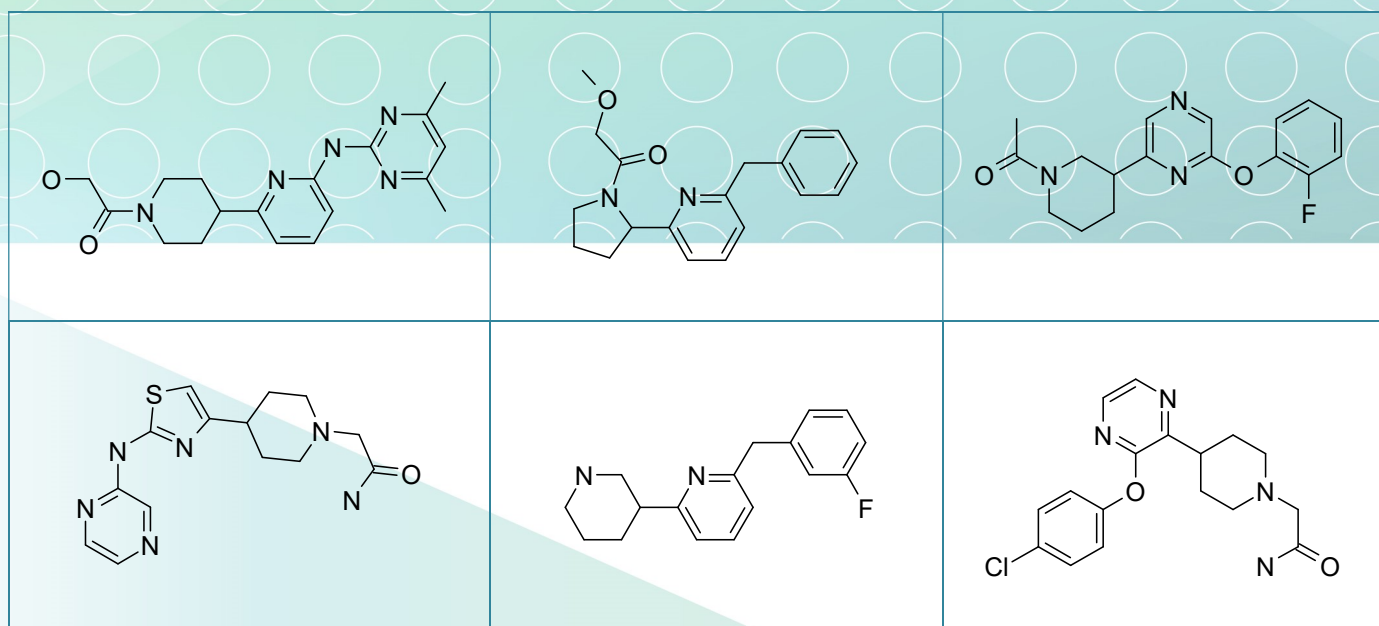


## SL-44. CNS Set (PAMPA-BBB)

A major problem to overcome in CNS drug design is the ability of the compound to cross the blood-brain barrier (BBB). Passive permeability is the most common mode of drug passage through BBB membranes [1].

Experimentally, passive BBB permeability can be predicted using PAMPA-BBB high-throughput assay [1]. *In vitro* screening of ASINEX's BioDesign™ collection has revealed a

number of CNS-like molecules with exceptionally high PAMPA-BBB permeability properties ( $P_e > 10 \times 10^{-6}$  cm/s). A diversity-selection of the most permeable compounds has been used as the basis for SL-44 library which can be further expanded through available analogs.



### Signature Library 41

Formats	Supplementary Information
80 compounds per plate 0.1 mg; 1 mg; 2 mg dry film/powder 0.1 $\mu$ mol; 1 $\mu$ mol DMSO solutions	SL#44_CNS Set.sdf PAMPA-BBB, $P_e$

#### References:

1. *Biophys J.* 2014 Aug 5; 107(3): 630–641. doi: 10.1016/j.bpj.2014.06.024
2. *Eur J Med Chem.* 2003 Mar;38(3):223-32. doi: 10.1016/S0223-5234(03)00012-6

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