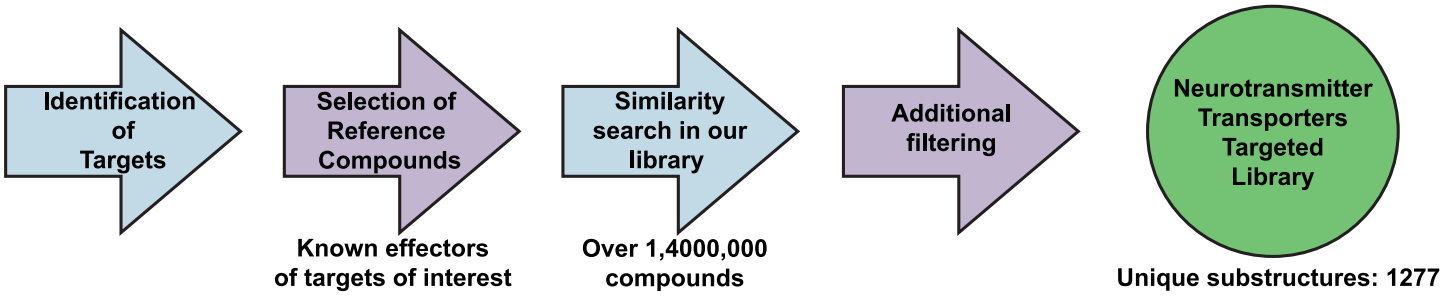
https://vitasmlab.net

NTMARK

Neurotransmitter Transporters Targeted Library

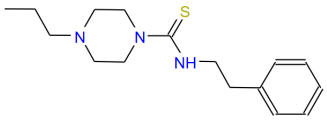
Neurotransmitter transporters are critical gatekeepers of neuronal signaling, regulating the concentration of neurotransmit- ters like serotonin, dopamine, and norepinephrine in synapses. By controlling synaptic clearance and recycling, they directly modulate mood, cognition, reward, and motor function. Dysregulation of these transporters is implicated in major neurologi- cal and psychiatric disorders, including depression, anxiety, Parkinson's disease, and substance abuse. The complexity of transporter structure and function—including allosteric sites and oligomerization—offers opportunities for novel modulators with improved specificity and faster onset of action. Developing next-generation inhibitors or enhancers could transform treatment for resistant depression, ADHD, or neurodegenerative conditions, providing more precise control over synaptic dynamics and reducing adverse effects associated with current therapies.



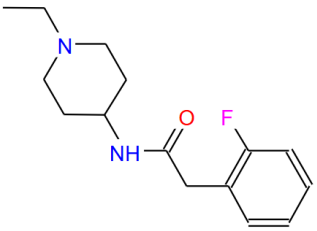
Example Targets:

EAAT2 Betaine/GABA Transporter 1

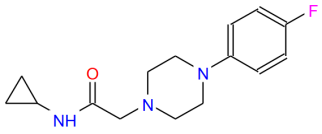
Creatine Transporter 1



STK304756



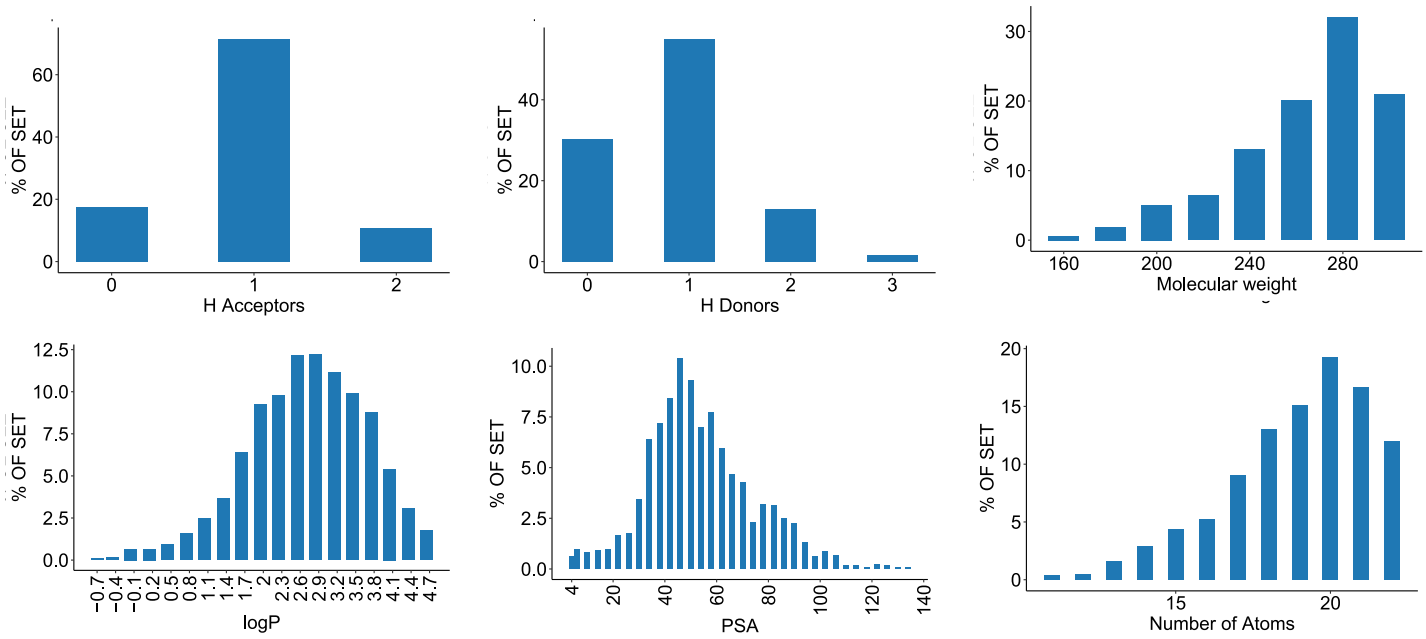
STK491479



STK476672

The Neurotransmitter Transporters Targeted Library (NTMARK) is a collection of 1840 rule-of-five compliant compounds, specifically designed to potentially modulate neurotransmitter transporters. Each compound was selected based on structur- al similarity to known, biologically active transporter modulators, ensuring high relevance. The library emphasizes diverse chemotypes and favorable drug-like properties while excluding problematic compounds. NTMARK serves as an ideal starting point for high-throughput screening campaigns, providing a rich source of novel, lead-like molecules.

Distribution of Parameters



If you have any specific needs for your project, we can provide specially tailored compound library based on your request.

Have questions or need a quote? Contact Irina Haywood (Ryabushenko) at
irina@vitasmlab.biz
Let's Connect on LinkedIn! Expand your professional network.

We look forward to collaborating with you!
Empowering Your Research, One Molecule at a Time.