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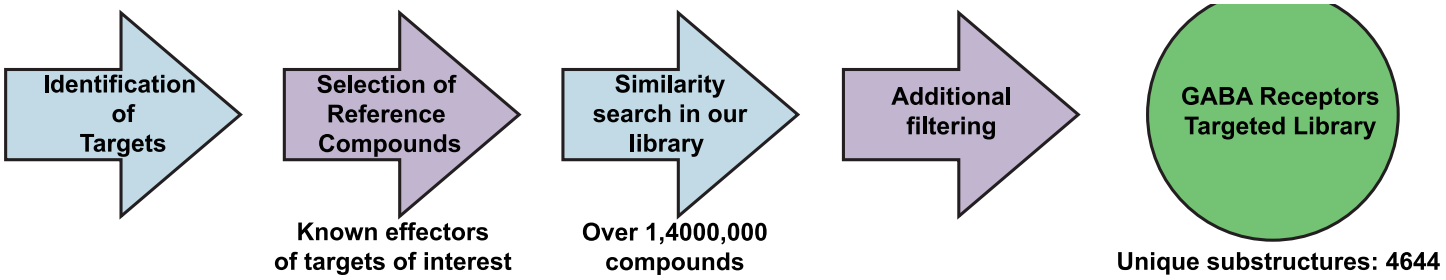
GABAMARK

GABA Receptors Targeted Library

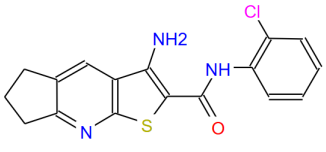
GABA receptors, the primary inhibitory neurotransmitter system in the central nervous system, play a pivotal role in regulat- ing neuronal excitability and maintaining the balance between excitation and inhibition. Their dysfunction is implicated in numerous neurological and psychiatric disorders, including epilepsy, anxiety, insomnia, and schizophrenia. While benzodi- azepines and other GABAergic drugs have been widely used for decades, their limitations—such as tolerance, dependence, and side effects like sedation and cognitive impairment—highlight the need for safer, more targeted therapies. Additionally, the diversity of GABA receptor subtypes offers untapped potential for precision medicine, as subtype-specific drugs could treat conditions without the drawbacks of current broad-acting medications. Emerging research also links GABA receptor abnormalities to neurodevelopmental disorders and chronic pain, expanding their therapeutic relevance. Developing novel modulators that selectively target specific receptor subtypes or employ innovative mechanisms could revolutionize treatment for millions of patients while minimizing risks.



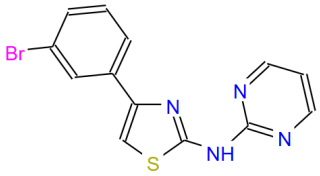
Example Targets:

α1β2γ2 GABAA α2βγ2/α3βγ2 GABAA

GABAB GABAA-rho δ-Subunit-Containing GABAA



STK332517



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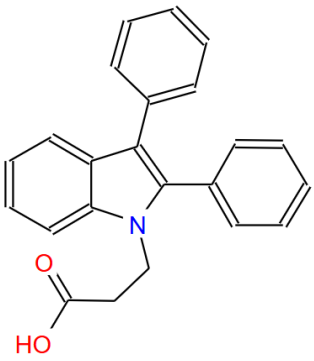
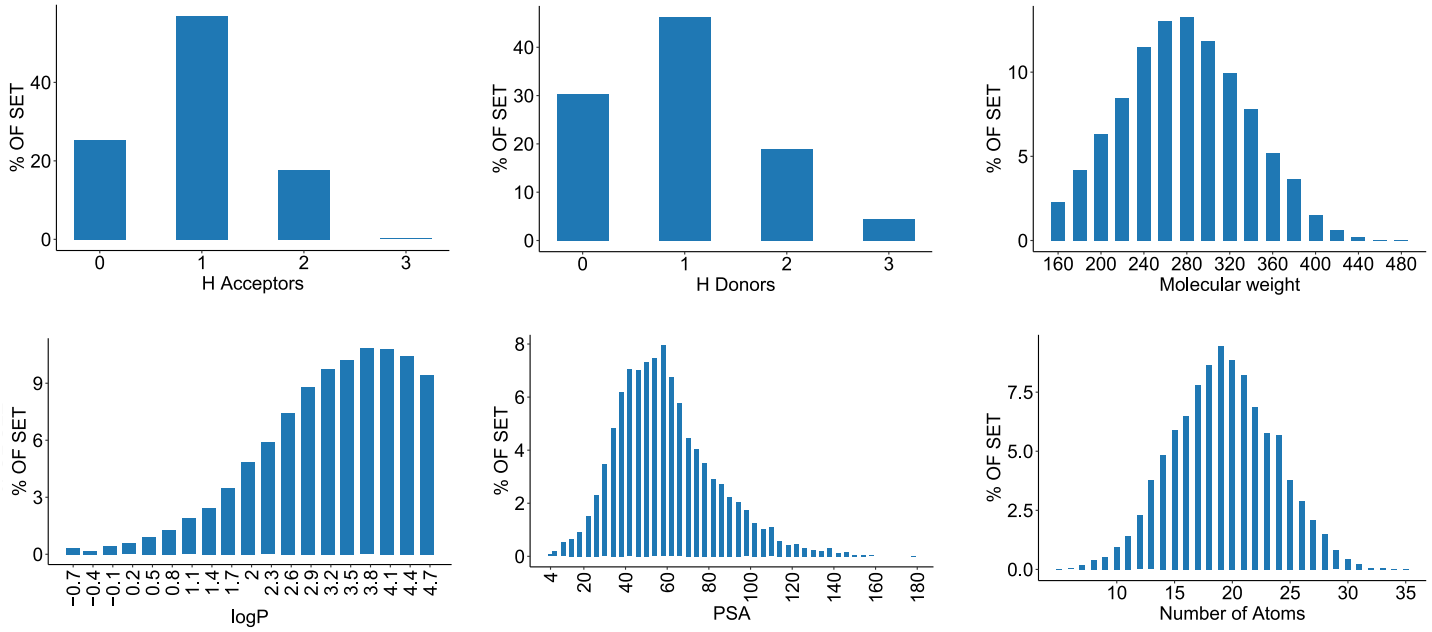


STK946022

GABA Receptors Targeted Library (GABAMARK) consists of compounds with potential modulator activity towards GABA receptors. Compounds were selected based on similarity to known effectors of GABA proteins. This library was designed to provide a potential starting point or to expand ongoing drug discovery project. It is designed in a way that maximizes structur- al diversity and excludes problematic compounds. This library has 7362 compounds. All compounds follow RO5.

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.