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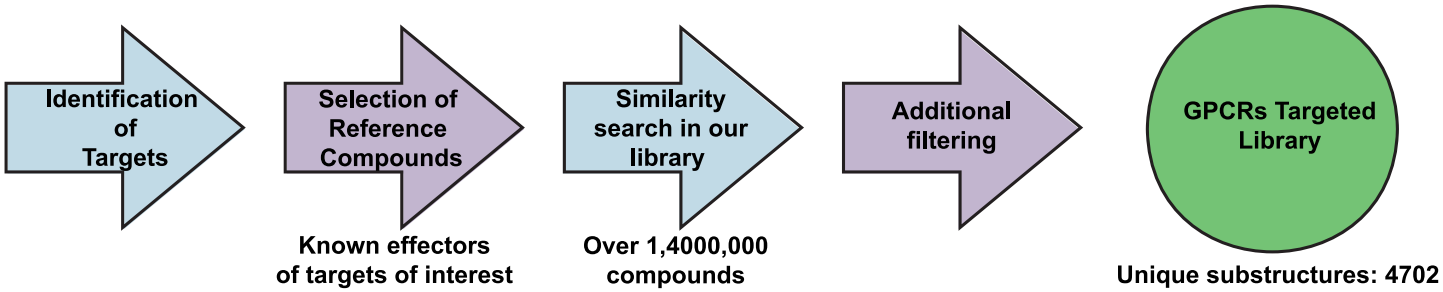
GPCRMARK

G Protein-Coupled Receptors Targeted Library

G protein-coupled receptors represent the largest family of membrane proteins in humans, translating extracellular signals into cellular responses that regulate virtually every physiological process from vision to cognition. Their central role in homeostasis and disease makes them the target of over 30% of currently marketed drugs, spanning treatments for hyper- tension, mental illness, and gastrointestinal disorders. Despite this success, many GPCRs remain undrugged, with over 100 receptors lacking known ligands or therapeutic applications. The complexity of GPCR signaling—including biased agonism, allosteric modulation, and downstream pathway selectivity—creates opportunities for next-generation drugs with improved efficacy and reduced side effects.



Example Targets:

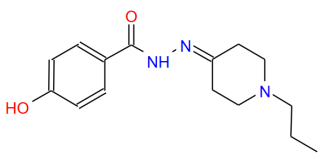
Beta-2 Adrenergic Receptor

Dopamine D2 Receptor

Serotonin 2A Receptor

CXCR4

HRH1



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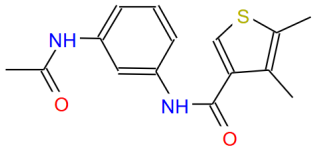

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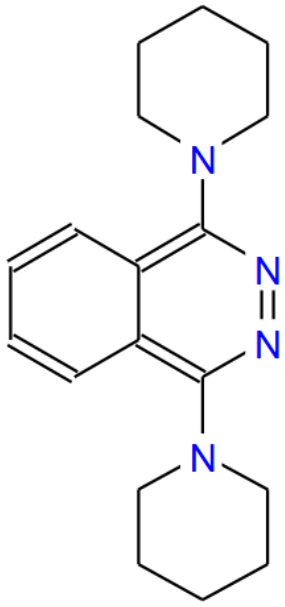
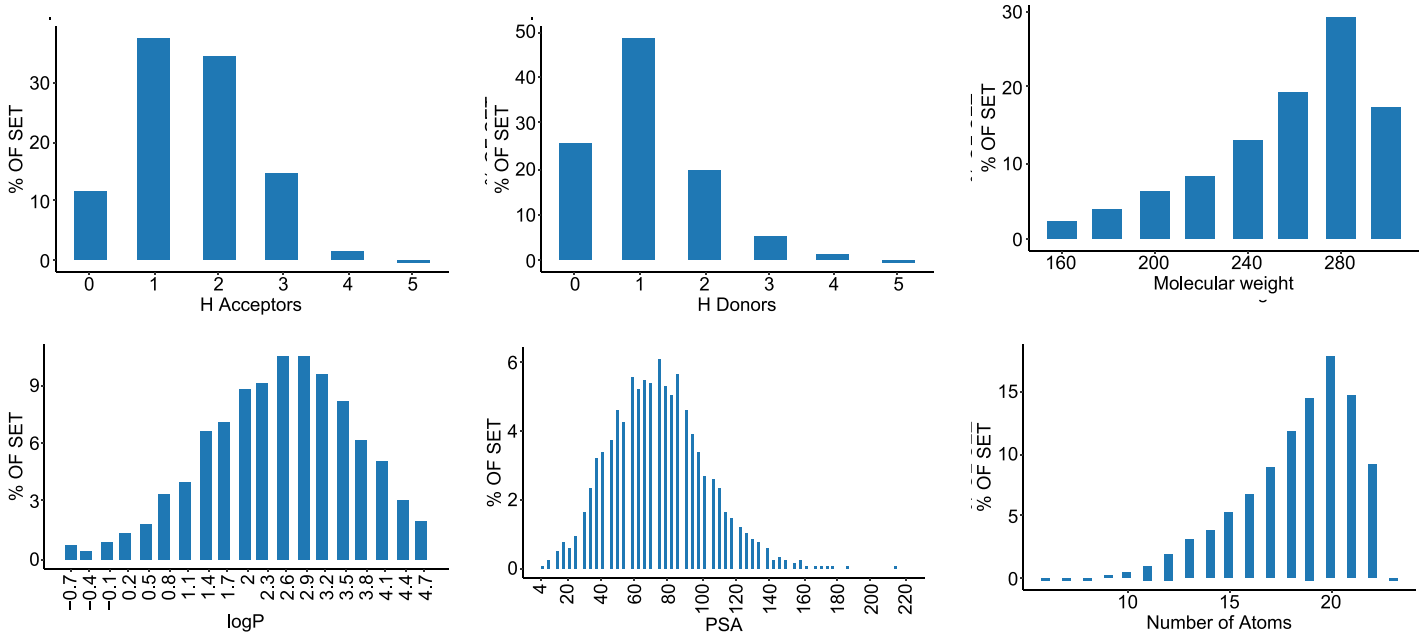


STL306155

The G Protein-Coupled Receptors Targeted Library (GPCRMARK) is a collection of 6,969 rule-of-five compliant compounds, selected for their structural similarity to known human GPCR effectors. Designed to support both new and ongoing drug discovery efforts, the library emphasizes broad structural diversity while excluding compounds with undesirable chemical properties or potential toxicity. GPCRMARK offers a robust foundation for screening campaigns aimed at identifying novel modulators of GPCR activity.

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.