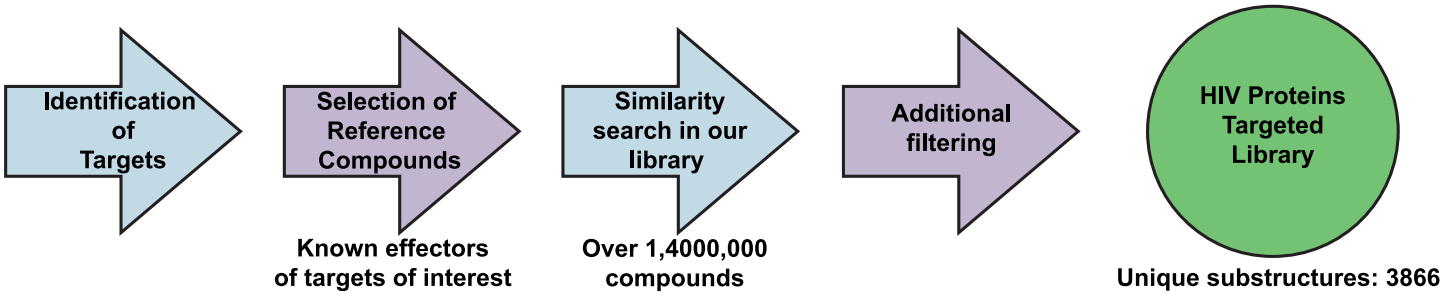
https://vitasmlab.net

HIVMARK

HIV Proteins Targeted Library

HIV proteins are essential for viral replication, integration, and immune evasion, making them prime targets for antiretroviral therapy. Some proteins have been successfully inhibited, transforming HIV into a manageable chronic condition. However, drug resistance remains a major challenge due to the virus's high mutation rate, often rendering existing therapies ineffective over time. Additionally, latent reservoirs of the virus persist even with treatment, preventing a complete cure. Current drugs also face limitations such as side effects and complex dosing regimens, which affect patient adherence and quality of life. Novel drugs targeting HIV proteins proteins could overcome resistance, reduce side effects, and potentially eradicate latent virus. The ongoing need for more effective, accessible, and durable treatments underscores the critical importance of contin- ued research into HIV protein inhibitors to achieve long-term viral suppression and move closer to a cure.



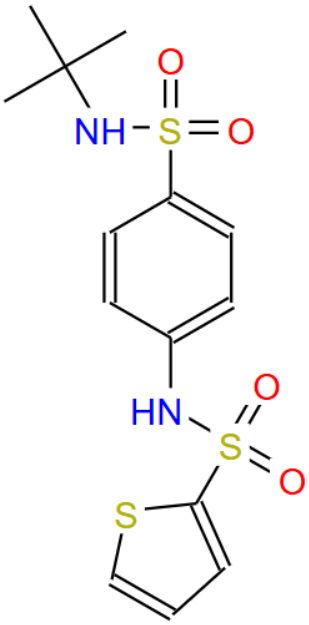
Example Targets:

HIV-1 Reverse Transcriptase

HIV-1 Protease HIV-1 Integrase

HIV-1 Capsid Protein

GP120



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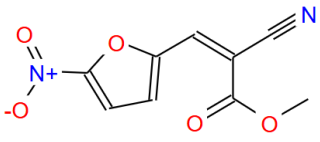

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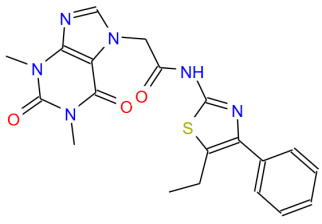
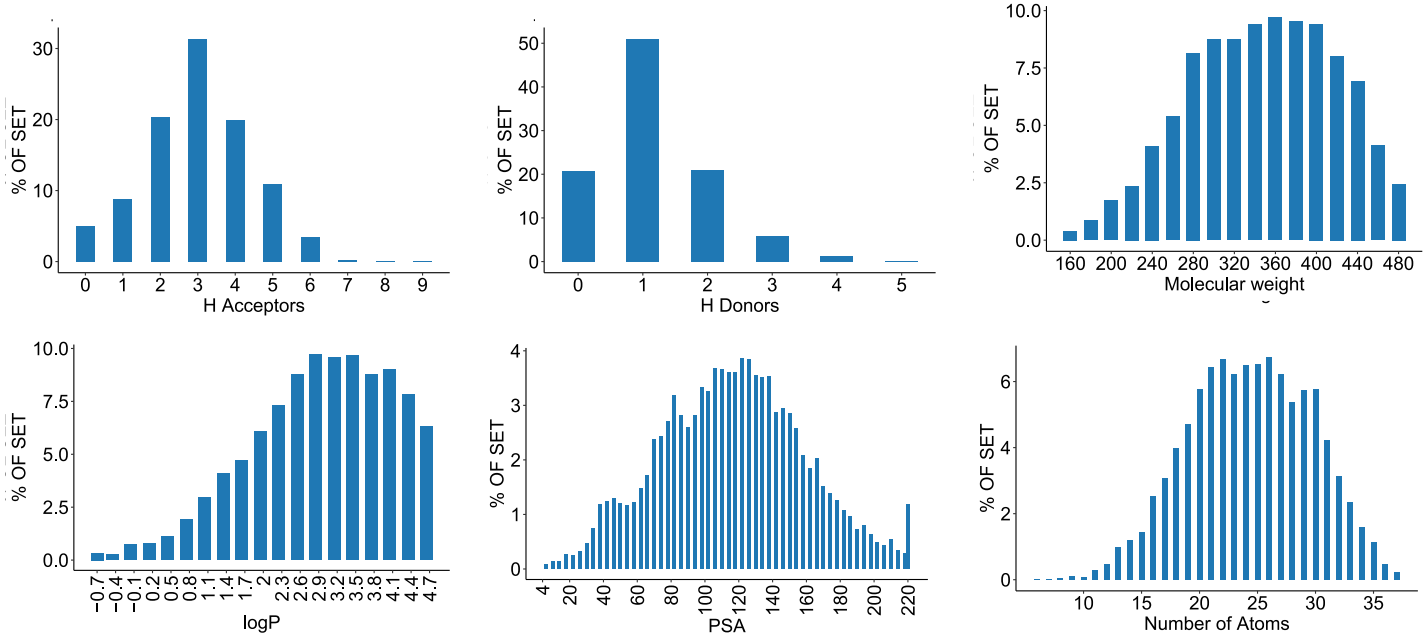


STK117817

The HIV Proteins Targeted Library (HIVMARK) is a set of 6193 drug-like compounds, all compliant with the rule of five. Each compound was selected for its structural similarity to known modulators of key HIV proteins, ensuring biological relevance. The library prioritizes structural diversity and favorable drug properties while filtering out problematic molecules. HIVMARK provides an ideal foundation for high-throughput screening, offering a rich source of novel chemical starting points for both new and ongoing antiretroviral drug discovery programs aimed at overcoming resistance and achieving long-term viral suppression. Distribution of Parameters

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.