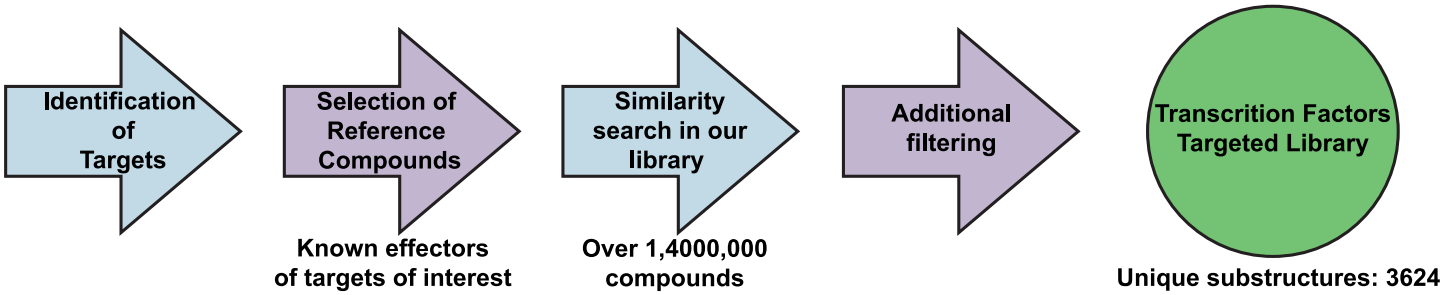
https://vitasmlab.net

TRFMARK

Transcription Factors Targeted Library

Transcription factors (TFs) are master regulators of gene expression, controlling cellular processes like growth, differentia- tion, and immune response. By binding DNA, they turn genes on or off, shaping cell identity and function. Dysregulated TFs drive diseases like cancer, autoimmune disorders, and neurodegeneration. Their pivotal role makes them prime drug targets—blocking or activating aberrant TFs could correct disease-causing gene networks. Yet, TFs are notoriously hard to drug due to unstructured surfaces and DNA-binding challenges. Breakthroughs like proteolysis-targeting chimeras (PROT- ACs) and protein-protein interaction inhibitors are unlocking this frontier. Targeting TFs offers precision medicine potential, especially for cancers with undruggable mutations or inflammatory diseases. Novel TF-targeting therapies could revolution- ize treatment for conditions with limited options, making them a critical focus for next-generation drugs.



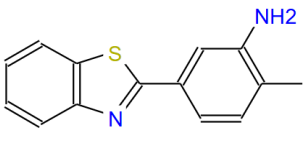
Example Targets:

Androgen Receptor

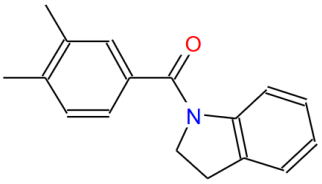
Estrogen Receptor

MYC Family p53 Tumor Suppressor

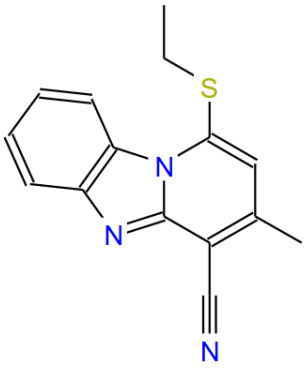
STAT3



STK345451



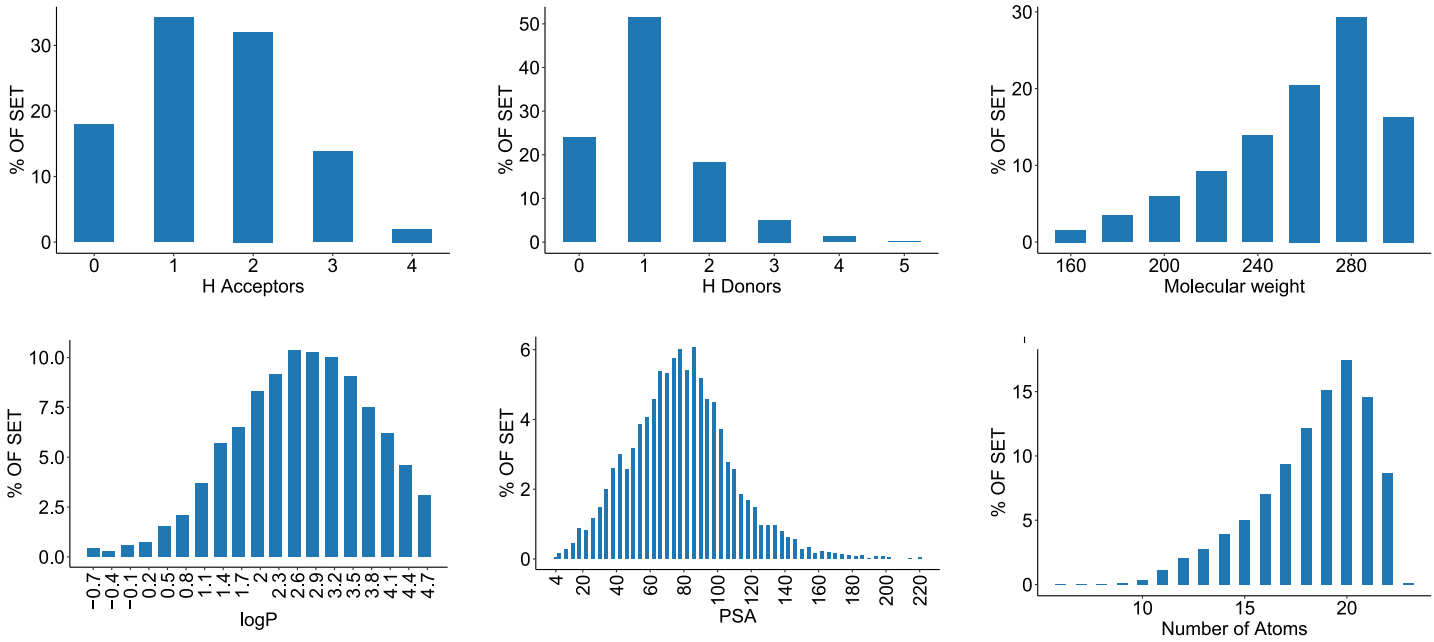
STK080208



STK953486

Transcription Factors Targeted Library (TRFMARK) consists of compounds, which were selected based on similarity to known effectors of major transcription factors. 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 structural diversity and excludes problematic compounds. This library has 5985 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.