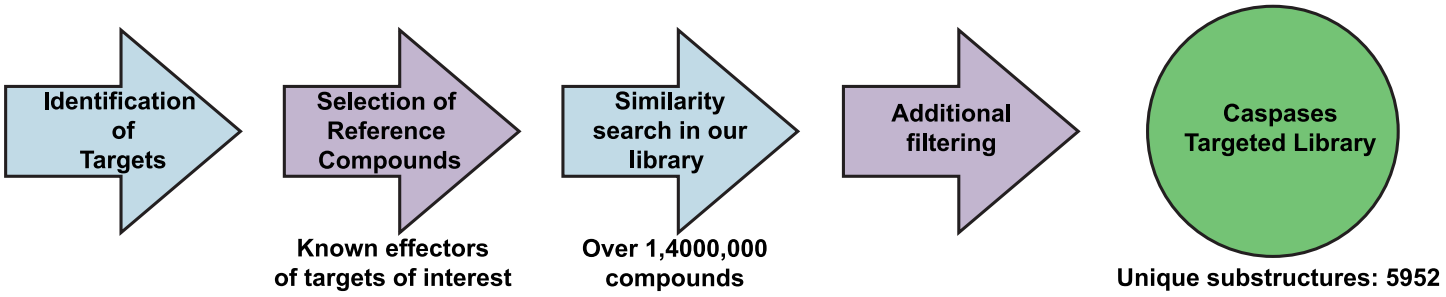
https://vitasmlab.net

CASPMARK

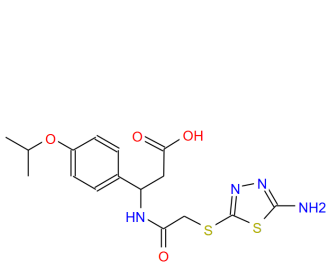
Caspases Targeted Library

Caspases are cysteine proteases that serve as central executioners of apoptosis and key regulators of inflammation. Their tightly controlled activity is essential for programmed cell death, immune response modulation, and tissue homeostasis. Dysregulated caspase function contributes to cancer, where defective apoptosis enables tumor survival, and neurodegener- ative diseases, where excessive caspase activation drives neuronal loss. The dual roles of caspases in cell death and inflammation present both challenges and opportunities—drugs must precisely modulate specific isoforms without disrupting critical physiological processes. Novel caspase-targeted therapies could address unmet needs in stroke, Alzheimer's disease, and chemotherapy-resistant cancers. Advances in allosteric inhibition and substrate-selective blockers may yield safer, more effective drugs, offering hope for conditions where apoptosis and inflammation pathways are unbalanced. Library was updated September 2026.

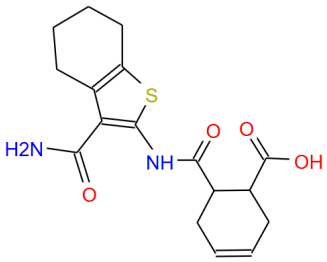


Example Targets:

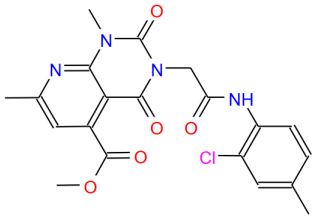
Caspase-1 Caspase-3 Caspase-6
Caspase-8 Caspase-9



STK682933



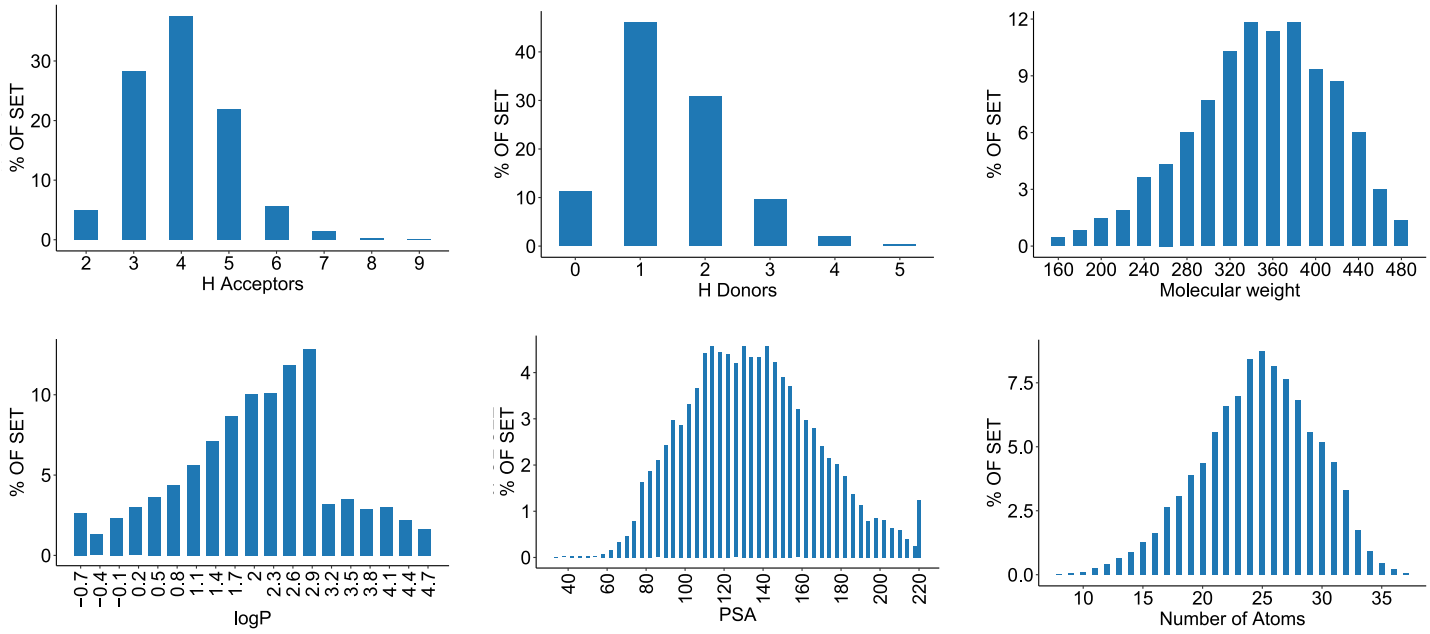
STK400399



STK497097

The CASPMARK library comprises 9341 compounds with potential caspase-modulating activity. These compounds were carefully selected based on their structural similarity to known caspase effectors. Designed to serve as a valuable starting point or to enhance existing drug discovery efforts, this library prioritizes structural diversity while excluding problematic molecules. All compounds comply with Lipinski's Rule of Five (RO5), ensuring favorable drug-like properties.

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.