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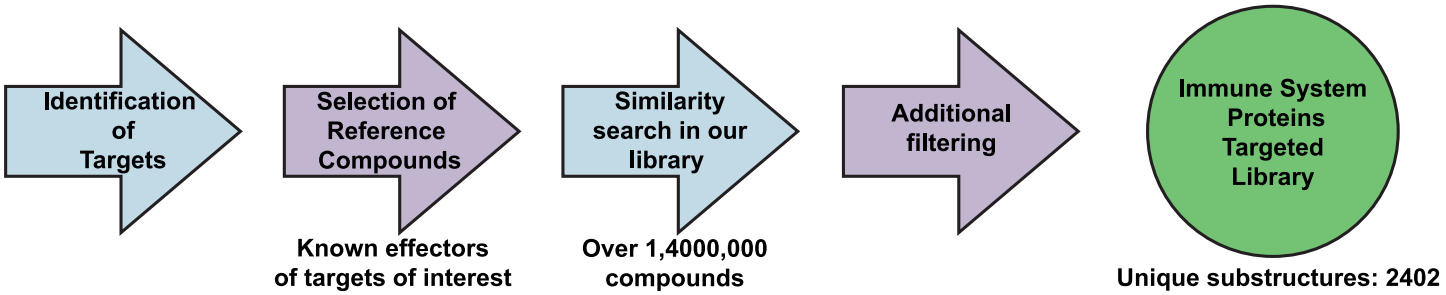
IMMMARK

Immune System Proteins Targeted Library

Immune system proteins are the cornerstone of defense against pathogens and disease, orchestrating responses from inflammation to targeted cell destruction. Their precise regulation is vital for health, as dysfunction can lead to autoimmune disorders, chronic inflammation, cancer, and immunodeficiency. Many immune-related diseases still lack effective therapies, and existing small-molecule drugs often suffer from broad immunosuppression or significant side effects. There is a critical need for novel drugs that can precisely modulate specific immune checkpoints, cytokines, or signaling pathways. Such next-generation therapeutics could offer oral bioavailability, improved safety profiles, and durable responses for a wider range of patients, ultimately providing more accessible and targeted control over the immune system in cancer, autoimmuni- ty, and infectious diseases.

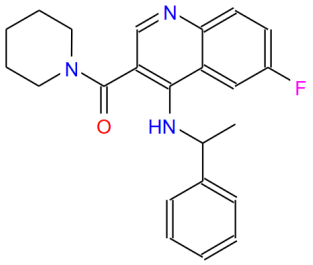


Example Targets:

JAK1

SYK BTK Phosphodiesterase 4

NLRP3 Inflammasome



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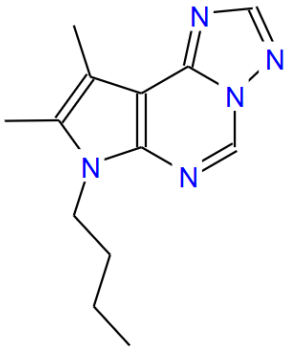

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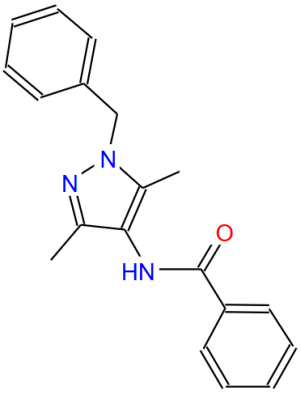

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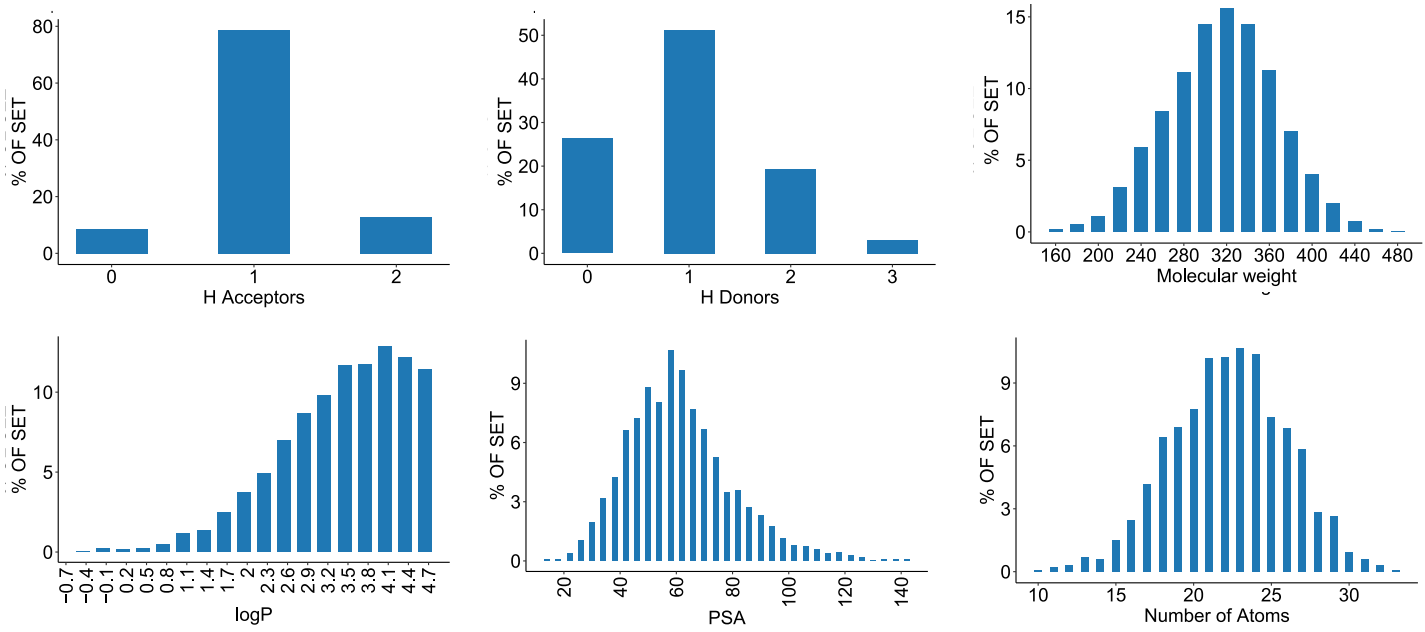
The Immune System Proteins Targeted Library (IMMMARK) is a collection of 3111 rule-of-five compliant compounds, specifi- cally selected as potentinal modulators for key immune targets. Compound were selected for their structural similarity to known immune protein effectors, ensuring biological relevance while maximizing chemical diversity and drug-like properties. The library prioritizes lead-like molecules with favorable pharmacokinetic profiles and excludes compounds with problematic structural motifs. IMMMARK serves as an ideal foundation for high-throughput screening, providing a robust and focused starting point for discovering novel immunomodulatory therapies against autoimmune, inflammatory, and oncological diseases. 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.