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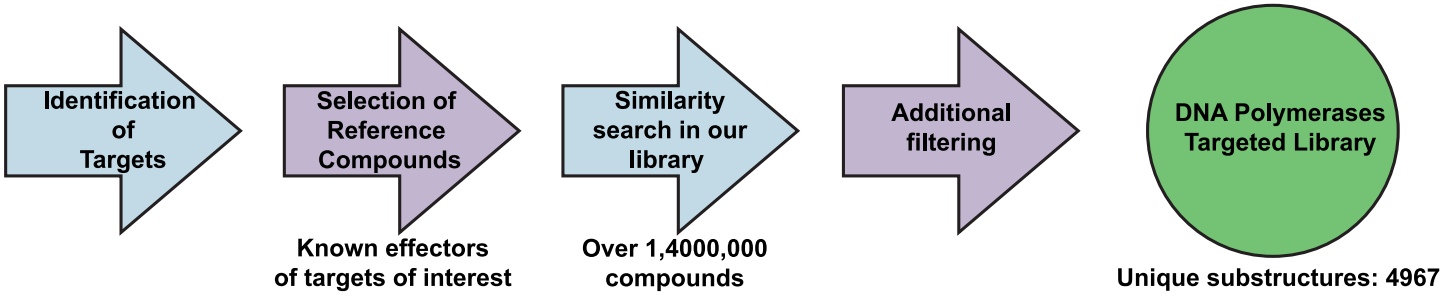
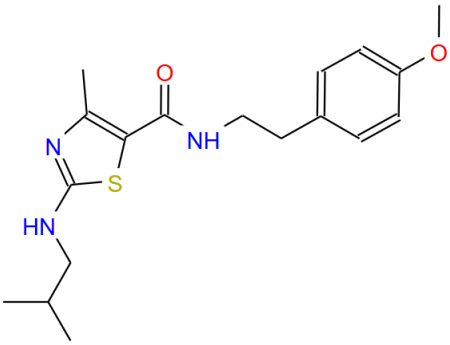
DNAPMARK

DNA Polymerases Targeted Library

DNA polymerases are essential enzymes that synthesize and repair DNA, maintaining genomic integrity. Their critical roles in replication and damage repair make them pivotal in cancer, viral infections, and aging. While current polymerase inhibitors are clinically valuable, they often lack specificity, leading to toxicity or resistance. The need for novel drugs is urgent in order to combat resistance in viruses and bacteria target error-prone polymerases in tumors to block mutation-driven relapse and to develop safer therapies with fewer side effects than conventional chemotherapy. Advances in computational drug design now allow precise targeting of polymerase active sites or allosteric pockets. Next-generation inhibitors could revolutionize treatment for cancer, infectious diseases, and age-related disorders, addressing unmet needs in precision medicine.





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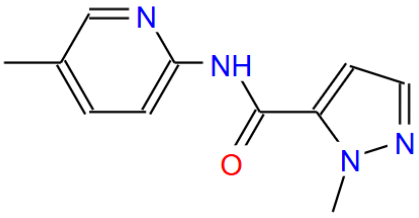

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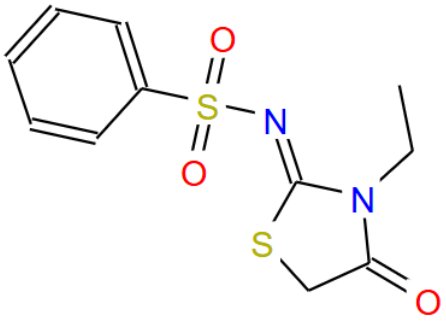

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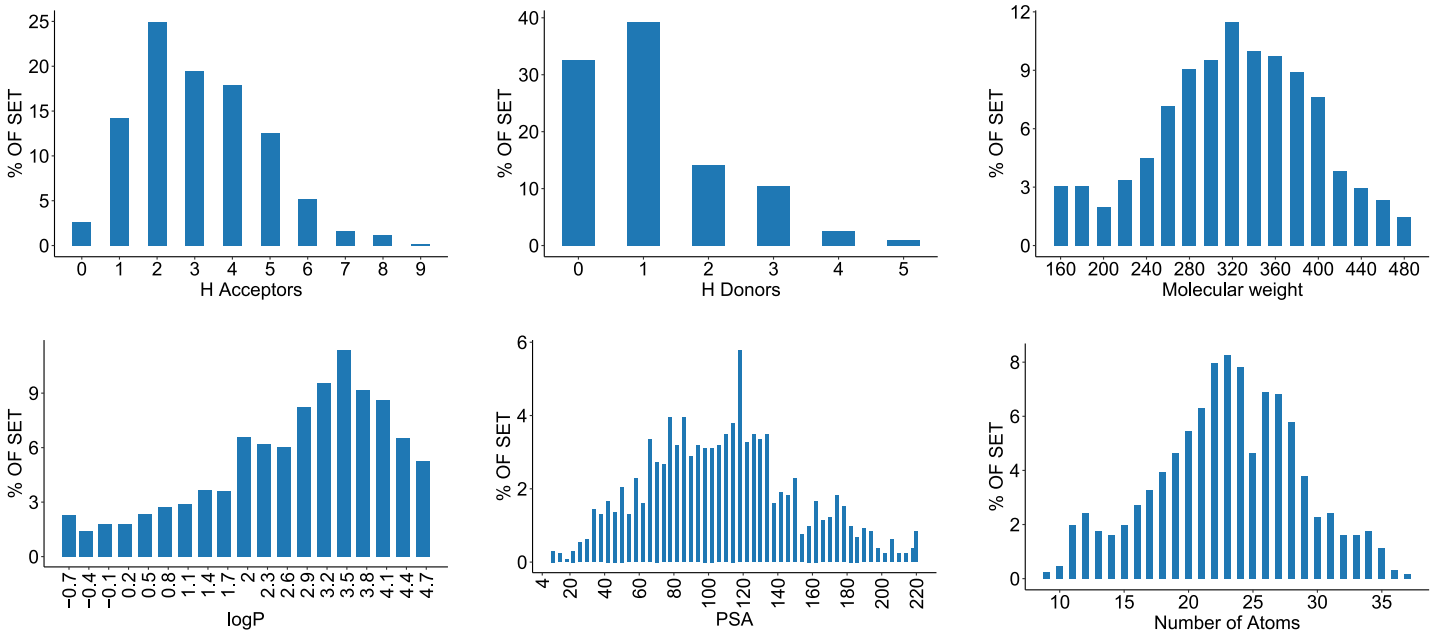
DNA Polymerases Targeted Library (DNAPMARK) consists of compounds which were selected based on similarity to known effectors of prominent human and viral polymerases. This library was designed to provide a potential starting point or to expand ongoing drug discovery project. It is designed in a way that maximizes structural diversity and excludes problematic compounds. This library has 8306 compounds. Majority of 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

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Let's Connect on LinkedIn! Expand your professional network.

We look forward to collaborating with you!

Empowering Your Research, One Molecule at a Time.