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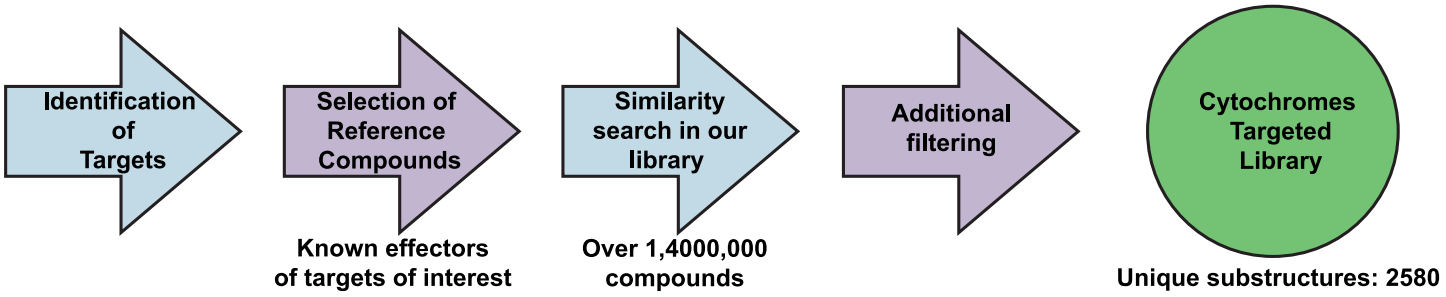
CYTMARK

Cytochromes Targeted Library

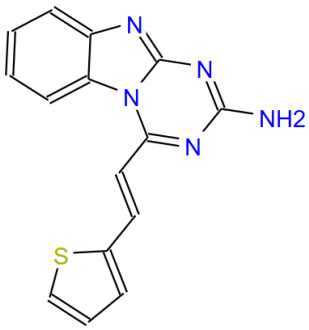
Cytochromes are heme-containing proteins critical for electron transport, energy production, and metabolic processes across all domains of life. Their redox capabilities drive essential functions including cellular respiration, drug metabolism, and oxidative stress responses. Dysregulation of cytochrome activity contributes to diseases ranging from mitochondrial disorders to cancer and neurodegenerative conditions. The unique redox centers of cytochromes offer opportunities for selective modulation, particularly in pathogens where they are often virulence factors. Novel drugs targeting cytochromes could address antibiotic resistance by disrupting microbial energy pathways, improve cancer therapies by altering tumor redox states, or treat metabolic diseases by fine-tuning mitochondrial function. Expanding research into cytochrome-target- ed compounds represents an untapped frontier for treating diseases linked to energy dysregulation and oxidative stress.



Example Targets:

CYP51 CYP19A1 Cytochrome bc1 Complex

CYP3A4 Complex IV



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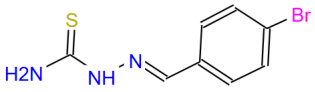

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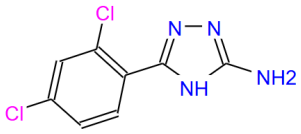
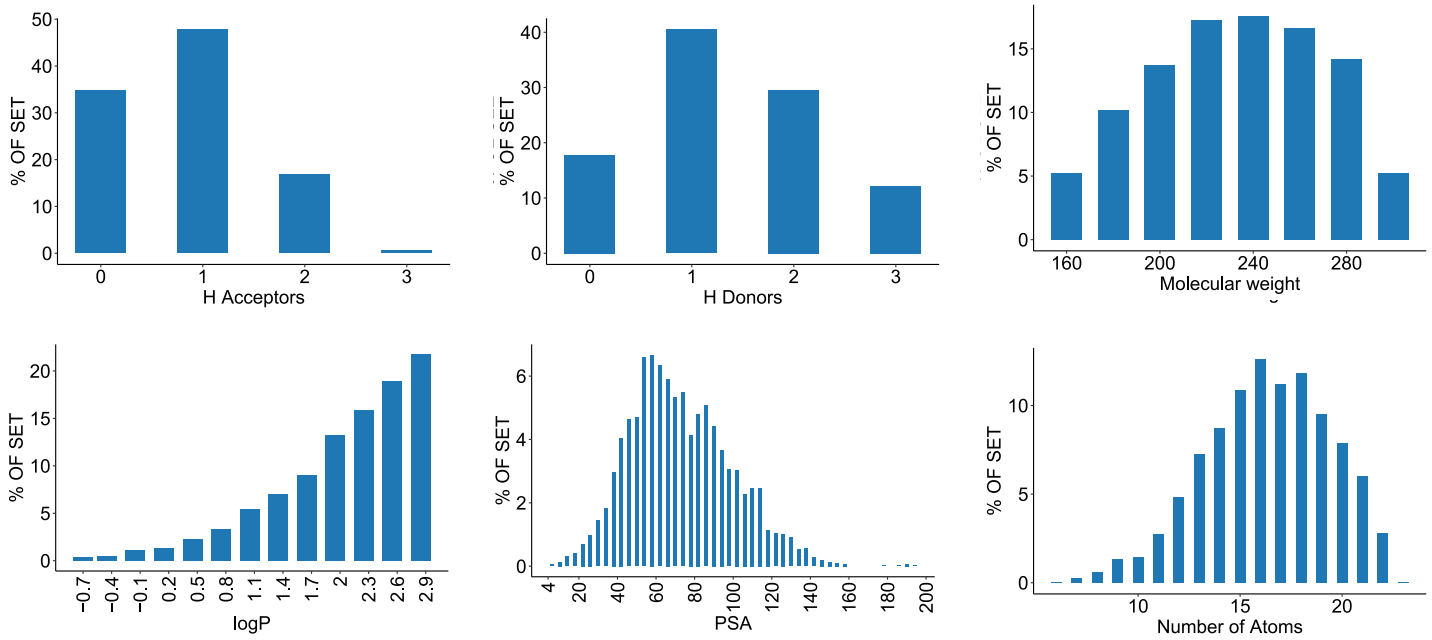


STK519309

Cytochromes Targeted Library (CYTMARK) consists of compounds which were selected based on similarity to known effectors of major cytochromes. 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 3961 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.