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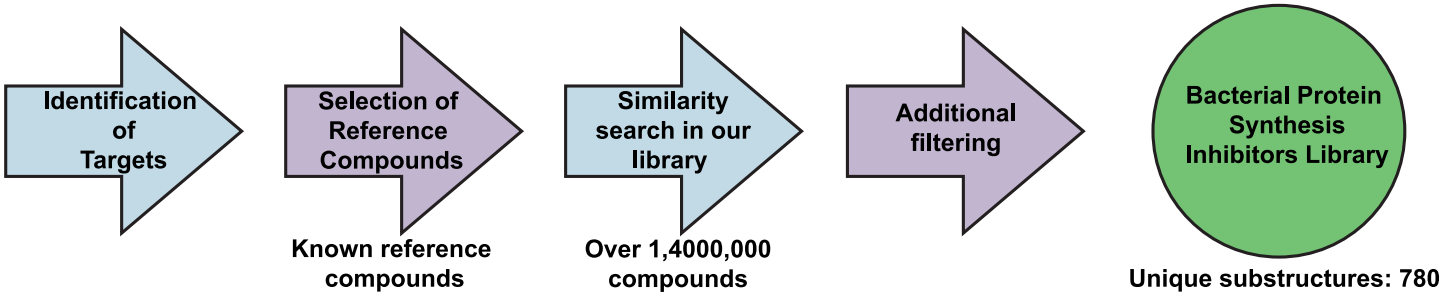
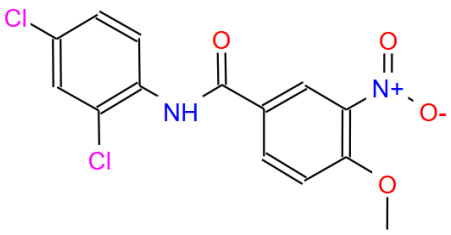
BPSILMARK

Bacterial Protein Synthesis Inhibitors Library

Bacterial protein synthesis inhibitors are vital antibiotics, they act via disrupting essential protein production while sparing human cells. This specificity makes them effective treatments for diverse infections, from skin conditions to life-threatening systemic diseases. However, rising antibiotic resistance threatens their efficacy, as bacteria evolve mechanisms to evade existing drugs, such as ribosomal modifications or efflux pumps. The need for new inhibitors is urgent to combat resistant strains like MRSA and multidrug-resistant tuberculosis. Novel drugs could overcome resistance by targeting unexplored ribosomal sites or employing unique mechanisms. Additionally, expanding the arsenal of protein synthesis inhibitors helps preserve current antibiotics by reducing overuse and extending their lifespan. With few new antibiotic classes discovered in decades, innovation in this area is critical to address the global antimicrobial resistance crisis and ensure effective treatments for future generations.





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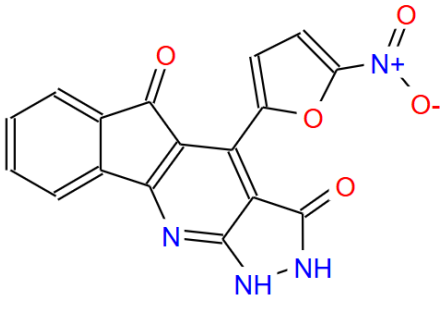

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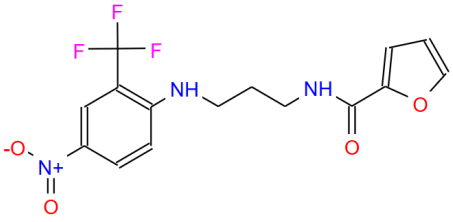
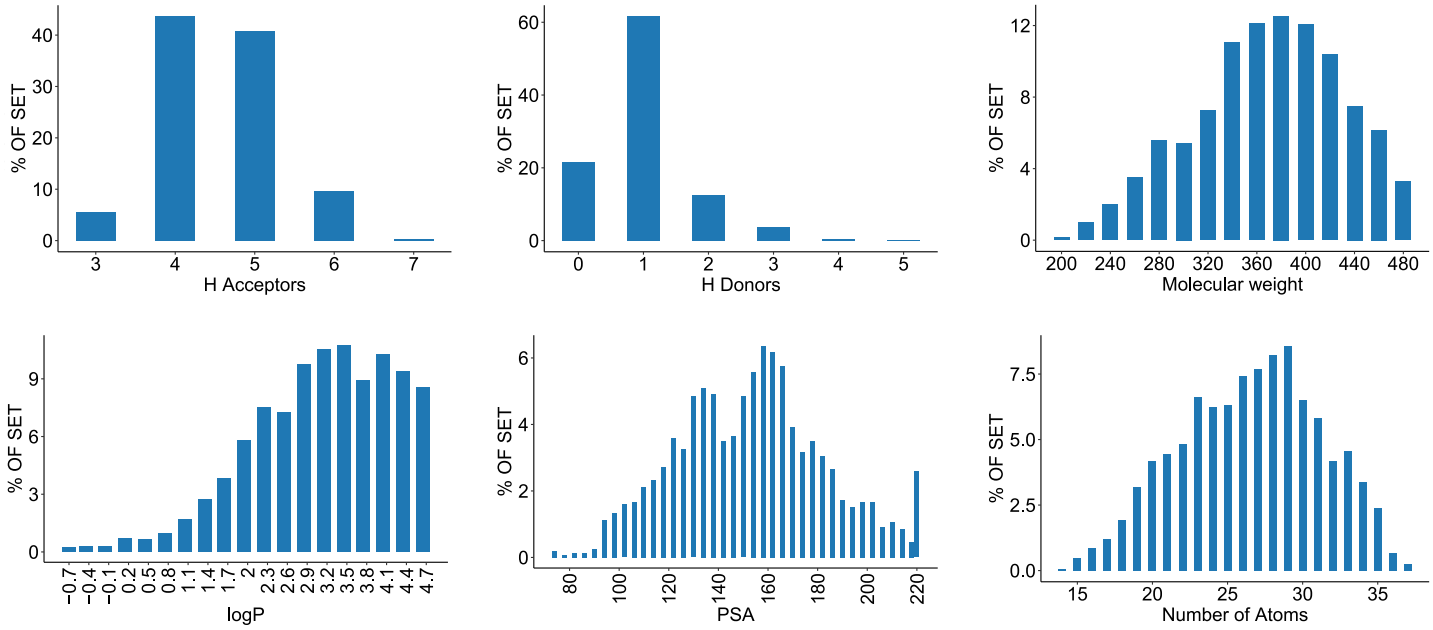


STK042343

Bacterial Protein Synthesis Inhibitors Library (BPSILMARK) consists of compounds with potential antibiotic activity, which were selected based on similarity to known bacterial protein synthesis inhibitors. 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 1508 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.