

PXYC1

## Chemical Properties

CAS No. :	865098-81-3
Formula:	C <sub>9</sub> H <sub>10</sub> N <sub>4</sub> O <sub>3</sub> S
Molecular Weight:	254.27
Storage:	Keep away from moisture,Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	PXYC1 acts as an antagonist of ribosomal protein S1 (RpsA), a key protein in the translation process of Mycobacterium tuberculosis. PXYC1 exerts its antituberculosis activity by binding to the C-terminal domain (CTD) of the RpsA protein, exhibiting binding affinities (Kd) of 0.81 μM and 0.31 μM for the wild-type and Δ438A mutant, respectively.
Targets(IC50)	Others,Antibacterial,Antibiotic

## Solubility Information

Solubility	DMSO: 100 mg/mL (393.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9328 mL	19.6641 mL	39.3283 mL
5 mM	0.7866 mL	3.9328 mL	7.8657 mL
10 mM	0.3933 mL	1.9664 mL	3.9328 mL
50 mM	0.0787 mL	0.3933 mL	0.7866 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yazhuang Dai, et al. Discovery and evaluation of new compounds targeting ribosomal protein S1 in antibiotic-resistant Mycobacterium Tuberculosis. Eur J Med Chem. 2020 Jun 15;196:112317.

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