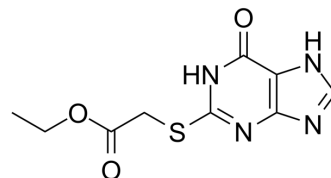


PXYC1

Cat. No.:	HY-146446
CAS No.:	865098-81-3
Molecular Formula:	C ₉ H ₁₀ N ₄ O ₃ S
Molecular Weight:	254.27
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (491.60 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PXYC1 is a ribosomal protein S1 (RpsA) antagonist with K_ds of 0.81 and 0.31 μM for RpsA-CTD and RpsA-CTD Δ438A, respectively. RpsA plays an important role in the trans-translation process of Mycobacterium Tuberculosis (Mtb)^[1].

IC₅₀ & Target

Kd: 0.81 μM (RpsA-CTD), 0.31 μM (RpsA-CTD Δ438A)^[1].

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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