

SET-12

Chemical Properties

CAS No. :	2241572-39-2
Formula:	C ₂₁ H ₂₉ N ₀₄
Molecular Weight:	359.47
Storage:	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	SET-12 is a highly active and selective antiparasitic agent against Leishmania amazonensis. It demonstrates outstanding activity against the promastigote form of the parasite, with an IC ₅₀ of 10.89 μM and a selectivity index (SI) of up to 12.1. Additionally, SET-12 is effective against intracellular amastigotes, with an IC ₅₀ of 3.81 μM and an SI that increases to 34.5. SET-12 also induces signs of apoptosis in the parasites, such as mitochondrial damage and the accumulation of reactive oxygen species (ROS).
Targets(IC50)	Apoptosis,Parasite,DNA/RNA Synthesis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7819 mL	13.9094 mL	27.8187 mL
5 mM	0.5564 mL	2.7819 mL	5.5637 mL
10 mM	0.2782 mL	1.3909 mL	2.7819 mL
50 mM	0.0556 mL	0.2782 mL	0.5564 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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