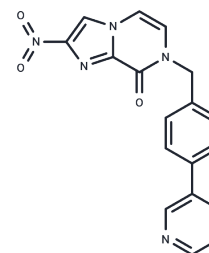


Anti-infective agent 5

Chemical Properties

CAS No. :	2738381-47-8
Formula:	C ₁₈ H ₁₃ N ₅ O ₃
Molecular Weight:	347.33
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Anti-infective agent 5 (compound 74) is an orally active inhibitor of <i>Trypanosoma cruzi</i> with an IC ₅₀ value of 0.10 μM, demonstrating efficacy in reducing parasite burden in vivo and holding promising potential for infection research. [1]
Targets(IC50)	Others,Parasite
In vitro	The anti-infective agent 5, administered at concentrations ranging from 0.1 nM to 100 μM for 48 hours, exhibits antitrypanosomal effects against <i>T. cruzi</i> amastigotes within 3T3 cells, achieving an IC ₅₀ of 0.10 μM [1]. Furthermore, in cytotoxicity assays conducted on the 3T3 cell line under the same conditions, the compound demonstrated a CC ₅₀ value of over 37 μM, indicating its activity and potential selectivity towards the pathogen while maintaining a lower toxicity profile towards the host cells [1].
In vivo	The anti-infective agent 5, administered orally at a dosage of 50 mg/kg twice daily for five days, significantly reduced the parasite burden in a BALB/c mouse model infected with bioluminescent <i>T. cruzi</i> CL Brener parasites. This treatment resulted in a greater than 98-99% decrease in parasite levels without causing notable adverse effects in the mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8791 mL	14.3955 mL	28.7911 mL
5 mM	0.5758 mL	2.8791 mL	5.7582 mL
10 mM	0.2879 mL	1.4396 mL	2.8791 mL
50 mM	0.0576 mL	0.2879 mL	0.5758 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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