

## Antitrypanosomal agent 12

## Chemical Properties

CAS No. :

Formula: C49H77N2NaO10S

Molecular Weight: 909.2

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	Antitrypanosomal agent 12, a C20-phenylthiourea, exhibits trypanocidal and cytotoxic activities, demonstrating antitrypanosomal activity with GI50 values of 0.22 $\mu$ M. It induces faster cell swelling in bloodstream-form trypanosomes compared to Salinomycin [1].
Targets(IC50)	Parasite
In vitro	Antitrypanosomal agent 12 at 100 $\mu$ M for 60 minutes induced cellular swelling in the bloodstream form of T. brucei more rapidly than Salinomycin [1]. Additionally, agent 12 showed greater selectivity for T. brucei over HL-60 cells, with MIC values of 1 $\mu$ M (T. brucei) and 10 $\mu$ M (HL-60 cells) [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0999 mL	5.4993 mL	10.9987 mL
5 mM	0.220 mL	1.0999 mL	2.1997 mL
10 mM	0.110 mL	0.5499 mL	1.0999 mL
50 mM	0.022 mL	0.110 mL	0.220 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.

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