

## Antileishmanial agent-21

## Chemical Properties

CAS No. :

Formula: C<sub>21</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight: 344.36

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	Antileishmanial agent-21 (compound 4e) functions as an inhibitor of Leishmania pteridine reductase 1 (Lm-PTR1), employing an anti-folate mechanism. Its antileishmanial effects can be negated by folic acid and leucovorin. Additionally, it demonstrates inhibitory activity against the chloroquine-resistant Plasmodium falciparum strain RKL9, with an IC <sub>50</sub> ranging from 0.0198 to 0.096 μM [1].
Targets(IC <sub>50</sub> )	Parasite

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9039 mL	14.5197 mL	29.0394 mL
5 mM	0.5808 mL	2.9039 mL	5.8079 mL
10 mM	0.2904 mL	1.452 mL	2.9039 mL
50 mM	0.0581 mL	0.2904 mL	0.5808 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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