Data Sheet (Cat.No.T71870)

TargetMol

CP21

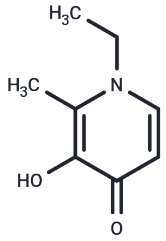
Chemical Properties

CAS No. : 30652-12-1

Formula: C8H11NO2

Molecular Weight: 153.18

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	CP21 is an iron chelator that binds to iron in a 3:1 (ligand:iron) ratio. It is active against P. falciparum when used at concentrations of 10 and 100 μM. CP21 inhibits production of prostaglandin I2 induced by epinephrine, arachidonic acid, or A23187 in isolated rat aortic rings with IC50 values of 1.3, 1.3, and 1.4 mM, respectively. It inhibits glutamate-induced oxytosis, as well as decreases iodoacetic acid-induced cytotoxicity in an in vitro model of ischemia, in HT22 mouse hippocampal cells (EC50s = 13 and 9.5 μM, respectively). CP21 (200 mg/kg) increases the excretion of iron, but not copper, zinc, calcium, or magnesium, in rabbits.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.5283 mL	32.6413 mL	65.2827 mL
5 mM	1.3057 mL	6.5283 mL	13.0565 mL
10 mM	0.6528 mL	3.2641 mL	6.5283 mL
50 mM	0.1306 mL	0.6528 mL	1.3057 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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