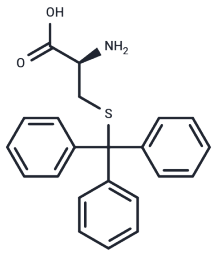
Data Sheet (Cat.No.T36816)

TargetMol
YOUR TARGET MOLECULES

S-trityl-L-Cysteine

Chemical Properties



CAS No. : 2799-07-7

Formula: C22H21NO2S

Molecular Weight: 363.47

Appearance: no data available

Storage: keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	S-trityl-L-Cysteine is a potent inhibitor of human mitotic kinesin Eg5
Targets(IC50)	Kinesin
In vitro	In vitro, S-trityl-L-Cysteine targets the catalytic domain of Eg5 and inhibits Eg5 basal and microtubule-activated ATPase activity as well as mant-ADP release. S-trityl-L-Cysteine is a tight binding inhibitor (estimation of K(i,app) <150 nm at 300 mm NaCl and 600 nm at 25 mm KCl). S-trityl-L-Cysteine binds more tightly than monastrol because it has both an approximately 8-fold faster association rate and approximately 4-fold slower release rate (6.1/microM/s and 3.6/s for S-trityl-L-Cysteine versus 0.78 /microM/s and 15/s for monastrol). S-trityl-L-Cysteine inhibits Eg5-driven microtubule sliding velocity in a reversible fashion with an IC50 of 500 nm[2].

Solubility Information

Solubility	DMSO: Slightly soluble Methanol: 1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7513 mL	13.7563 mL	27.5126 mL
5 mM	0.5503 mL	2.7513 mL	5.5025 mL
10 mM	0.2751 mL	1.3756 mL	2.7513 mL
50 mM	0.055 mL	0.2751 mL	0.5503 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.

Reference

Wu W, et al. S-trityl-L-cysteine, a novel Eg5 inhibitor, is a potent chemotherapeutic strategy in neuroblastoma. Oncol Lett. 2018 Jul;16(1):1023-1030.

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