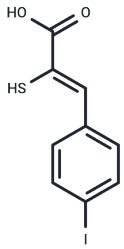
Data Sheet (Cat.No.T3525)

PD150606

Chemical Properties



CAS No. : 179528-45-1

Formula: C9H7IO2S

Molecular Weight: 306.12

Storage: Keep away from direct sunlight
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	PD150606 is a selective nonpeptide calpain inhibitor with neuroprotective activity that inhibits μ-calpains and m-calpains. Inhibits erythrocyanine-induced Ca2+ efflux and interferes with excitotoxicity-dependent motor neuron death.
Targets(IC50)	Proteasome,Cysteine Protease
In vitro	PD 150606 (25 μM; 0-12 hours) can partially reduce apoptosis of neutrophils induced by staurosporine[2].

Solubility Information

Solubility	DMSO: 15 mg/mL (49 mM),Sonification is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.53 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2667 mL	16.3335 mL	32.6669 mL
5 mM	0.6533 mL	3.2667 mL	6.5334 mL
10 mM	0.3267 mL	1.6333 mL	3.2667 mL
50 mM	0.0653 mL	0.3267 mL	0.6533 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.

Reference

Wang KK et al. An alpha-mercaptoacrylic acid derivative is a selective nonpeptide cell-permeable calpain inhibitor and is neuroprotective. Proc Natl Acad Sci U S A. 1996 Jun 25;93(13):6687-92.
Squier MK , et al. Calpain and calpastatin regulate neutrophil apoptosis. J Cell Physiol. 1999 Mar;178(3):311-9.