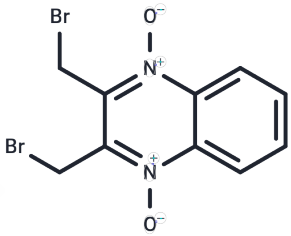
Data Sheet (Cat.No.T21687)

TargetMol

Conoidin A

Chemical Properties



CAS No. : 18080-67-6

Formula: C10H8Br2N2O2

Molecular Weight: 347.99

Storage: Store at low temperature
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	Conoidin A is a cell-permeable inhibitor of the T. gondii enzyme peroxiredoxin II (TgPrxII) with nematicidal properties. It covalently binds to the peroxidatic Cys47 of TgPrxII, irreversibly inhibiting its hyperperoxidation activity with an IC50 of 23 μM. It also inhibits hyperoxidation of mammalian PrxI and PrxII (but not PrxIII). Conoidin A has antioxidant, neuroprotective effects and can be used for research on ischaemic heart disease.
Targets(IC50)	Parasite

Solubility Information

Solubility	DMSO: 15.63 mg/mL (44.92 mM),Sonication 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: 1 mg/mL (2.87 mM),Sonication is recommended. 10% DMSO+90% Saline: 1.56 mg/mL (4.48 mM),Solution. *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	2.8736 mL	14.3682 mL	28.7365 mL
5 mM	0.5747 mL	2.8736 mL	5.7473 mL
10 mM	0.2874 mL	1.4368 mL	2.8736 mL
50 mM	0.0575 mL	0.2874 mL	0.5747 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

Gu Liu, et al. Optimisation of conoidin A, a peroxiredoxin inhibitor. ChemMedChem. 2010 Jan;5(1):41-5.
Jeralyn D Haraldsen, et al. IDENTIFICATION OF CONOIDIN A AS A COVALENT INHIBITOR OF PEROXIREDOXIN II. Org Biomol Chem. 2009;7:3040-3048.