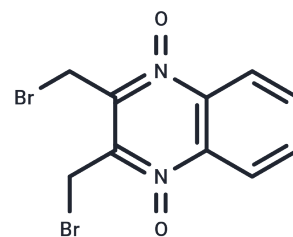


Conoidin A

Chemical Properties

CAS No. :	18080-67-6
Formula:	C ₁₀ H ₈ Br ₂ N ₂ O ₂
Molecular Weight:	347.99
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Conoidin A is a cell permeable inhibitor of 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 IC ₅₀ 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 the research of ischaemic heart disease.
Targets(IC ₅₀)	Parasite

Solubility Information

Solubility	DMSO: 14.29 mg/mL (41.06 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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