

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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Cat. No.:HY-116090CAS No.:18080-67-6Molecular Formula: $C_{10}H_8Br_2N_2O_2$ Molecular Weight:347.99

Target: Parasite

Pathway: Anti-infection

Storage: Powder -20°C 3 years

4°C 2 years

In solvent -80°C 6 months

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 14.29 mg/mL (41.06 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: \geq 1.43 mg/mL (4.11 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Conoidin A is a cell permeable inhibitor of $\it T. gondii$ enzyme peroxiredoxin II (TgPrxII) with nematicidal properties. Conoidin A covalently binds to the peroxidatic Cys47 of TgPrxII, irreversibly inhibiting its hyperperoxidation activity with an IC $_{50}$ of 23 μ M. Conoidin A also inhibits hyperoxidation of mammalian PrxI and PrxII (but not PrxIII)[1][2]. Conoidin A has antioxidant, neuroprotective effects and can be used for the research of ischaemic heart disease[3].
IC ₅₀ & Target	Toxoplasma
In Vitro	Peroxiredoxins are a widely conserved family of enzymes that function in antioxidant defense and signal transduction. And

the changes in PrxII expression are associated with a variety of human diseases, including cancer^[1]. Conoidin A binds to the peroxidatic cysteine of TgPrxII, inhibiting its enzymatic activity in vitro. Conoidin A also shown to alkylate or crosslink catalytic cysteines of wild type AcePrx-1 in Ancylostoma ceylanicum and human PrxII and PrxIV with similar efficiency. But it is ineffective to mitochondrial hPrxIII^[2].

	Conoidin A (5 μ M) can inhibit the glucose oxidase-mediated hyperoxidation of mammalian peroxiredoxin I and II ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	N0162) on the STMsegm reduced by Luteolin. Bu prevents Luteolin-reduc	Conoidin A (intraperitoneal injection; 5 mg/kg; for three successive days before MI/R injury) blocks the effect of Luteolin (HY-N0162) on the ST\(\text{STE}\) segment elevation. Furthermore, an increase in the infarct size presented of the MI/R group can be reduced by Luteolin. But pre\(\text{STE}\) treatment with conoidin A abolishs the effect of Luteolin. Pre\(\text{STE}\) treatment with conoidin A also prevents Luteolin-reduced activities of CK\(\text{SMB}\), AST and LDH in vivo\(^{13}\). MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Rat myocardial I/R model ^[3]	
	Dosage:	5 mg/kg	
	Administration:	Intraperitoneal injection; 5 mg/kg; for three successive days before MI/R injury	
	Result:	Significantly reversed the antioxidative effect of Luteolin. Impaired the protective effects of luteolin.	

REFERENCES

- [1]. Jeralyn D Haraldsen, et al. IDENTIFICATION OF CONOIDIN A AS A COVALENT INHIBITOR OF PEROXIREDOXIN II. Org Biomol Chem. 2009;7:3040-3048.
- [2]. Gu Liu, et al. Optimisation of conoidin A, a peroxiredoxin inhibitor. ChemMedChem. 2010 Jan;5(1):41-5.
- $[3]. Bo Wei, et al. \ Luteolin ameliorates \ rat \ myocardial \ is chaemia-reperfusion \ in jury \ through \ activation \ of \ peroxired oxin \ II. \ Br \ J \ Pharmacol \ activation \ of \ peroxired oxin \ II. \ Br \ J \ Pharmacol \ activation \ of \ peroxired oxin \ II. \ Br \ J \ Pharmacol \ activation \ of \ peroxired oxin \ II. \ Br \ J \ Pharmacol \ activation \ of \ peroxired oxin \ II. \ Br \ J \ Pharmacol \ activation \ of \ peroxired oxin \ II. \ Br \ J \ Pharmacol \ activation \ of \ peroxired oxin \ II. \ Br \ J \ Pharmacol \ activation \ of \ peroxired oxin \ II. \ Br \ J \ Pharmacol \ activation \ of \ peroxired oxin \ II. \ Br \ J \ Pharmacol \ activation \ oxin \$

Caution: Product has not been fully validated for medical applications. For research use only.

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