

Product Data Sheet

Cas No.:	38520-57-9	Cat. No:	PL09446
Product Name:	N-Acetylcysteine amide		
Product synonym:	N-乙酰-L-胱氨酸;N-乙酰基-L-半胱氨酰胺		
Chemical name:	N-Acetylcysteine amide		
MF:	C5H10N2O2S	FW:	162.2101
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			NH ₂
λmax:	-	Formulation:	-
Solubility :			
SMILES :	CC(N[C@@H](CS)C(N)=O)=O		
InChI Code:		-	
InChl Key:			
	WARNING This product is not	t for human or veterinary use.	

Product Description

N-Acetylcysteine amide 是一种能透过细胞膜和血脑屏障的硫醇抗氧化剂和神经保护剂,可降低 ROS 的产生。

生物活性	N-Acetylcysteine amide is a cell membranes and blood brain barrier permeant thiol antioxidant and neuroprotective agent, reduces ROS production.
体外研究(In Vitro)	N-Acetylcysteine amide shows no obvious effect on the viability of H9c2 cells treated with doxorubicin (DOX) at < 1 mM, but causes significant cytotoxicity at 10-20 mM. N-Acetylcysteine amide (750 μM) reduces the ROS levle and lipid peroxidation induced by DOX, and restores GSH/GSSG ratio and activities of antioxidant enzymes, such as catalase (CAT), gluthathione peroxidase (GPx), gluthathione reductase (GR). N-Acetylcysteine amide (1 mM) protects the human brain microvascular endothelial (HBMVEC) from methamphetamine (METH)- induced cell death. has not independently confirmed the accuracy of these methods. They are for reference only.
体内研究(In Vivo)	N-Acetylcysteine amide has increased CNS bioavailability. N-Acetylcysteine amide (150 mg/kg, i.p.) improves cortical sparing and functional outcome, reduces oxidative stress, improves mitochondrial bioenergetics, and maintains mitochondrial glutathione content following traumatic brain injury (TBI) in rats. has not independently confirmed the accuracy of these methods. They are for reference only.

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包装储存	Powder -20°C 3 years: 4°C 2 years	
溶解度数据	溶解度数据 In Vitro: H ₂ O : 200 mg/mL (1232.97 mM; Need ultrasonic)DMSO : ≥ 100 mg/mL (616.48 mM)	