Dehydroascorbic acid

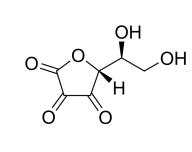
Cat. No.:	HY-110281			
CAS No.:	490-83-5			
Molecular Formula:	$C^{e}H^{e}O^{e}$			
Molecular Weight:	174.11			
Target:	Endogenous Metabolite			
Pathway:	Metabolic Enzyme/Protease			
Storage:	Powder	-20°C	3 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	5.7435 mL	28.7175 mL	57.4350 mL		
		5 mM	1.1487 mL	5.7435 mL	11.4870 mL		
		10 mM	0.5743 mL	2.8717 mL	5.7435 mL		
n Vivo	1. Add each solvent	Please refer to the solubility information to select the appropriate solvent. 1. Add each solvent one by one: PBS Solubility: 12.5 mg/mL (71.79 mM); Clear solution; Need ultrasonic					
2. Add ead Solubili 3. Add ead	2. Add each solvent	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (14.36 mM); Clear solution 					
		dd each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) olubility: ≥ 2.5 mg/mL (14.36 mM); Clear solution					
		one by one: 10% DMSO >> 90% cor g/mL (14.36 mM); Clear solution	n oil				

BIOLOGICAL ACTIV	ТТҮ
Description	Dehydroascorbic acid, a blood-brain barrier transportable form of vitamin C, mediates potent cerebroprotection in experimental stroke.
IC ₅₀ & Target	Human Endogenous Metabolite





Product Data Sheet

In Vitro	
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Neuronal injury in ischemic stroke is partly mediated by cytotoxic reactive oxygen species. Although the antioxidant ascorbic acid (AA) or vitamin C does not penetrate the blood-brain barrier (BBB), its oxidized form, dehydroascorbic acid (DHA), enters the brain by means of facilitative transport^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Huang J, et al. Dehydroascorbic acid, a blood-brain barrier transportable form of vitamin C, mediates potentcerebroprotection in experimental stroke. Proc Natl Acad Sci U S A. 2001 Sep 25;98(20):11720-4.

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

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