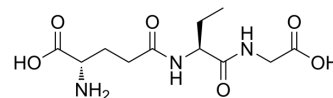


Ophthalmic acid

Cat. No.:	HY-126752
CAS No.:	495-27-2
Molecular Formula:	C ₁₁ H ₁₉ N ₃ O ₆
Molecular Weight:	289.29
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (345.67 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		3.4567 mL	17.2837 mL	34.5674 mL
		5 mM		0.6913 mL	3.4567 mL	6.9135 mL
		10 mM		0.3457 mL	1.7284 mL	3.4567 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: ≥ 2.5 mg/mL (8.64 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.64 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.64 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Ophthalmic acid, an analogue of GSH, is a marker of oxidative stress and hepatic GSH consumption. Ophthalmic acid is an inhibitor of Glyoxalase I reaction ^{[1][2]} .
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REFERENCES

[1]. Gurnit Kaur, et al. Detection of Ophthalmic Acid in Serum from Acetaminophen-Induced Acute Liver Failure Patients Is More Frequent in Non-Survivors. PLoS One. 2015 Sep 25;10(9):e0139299.

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

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