3-Hydroxycoumarin

Cat. No.: HY-127170 CAS No.: 939-19-5 Molecular Formula: $C_0H_0O_3$ Molecular Weight: 162.14

Target: Lipoxygenase

Pathway: Metabolic Enzyme/Protease

Storage: Powder -20°C 3 years 2 years

> -80°C In solvent 6 months

-20°C 1 month

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (616.75 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	6.1675 mL	30.8375 mL	61.6751 mL
	5 mM	1.2335 mL	6.1675 mL	12.3350 mL
	10 mM	0.6168 mL	3.0838 mL	6.1675 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 (15.42 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (15.42 mM); Suspended solution; Need ultrasonic
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (15.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

3-hydroxycoumarin is a potent and redox inhibitor of human 15-LOX-1. 3-hydroxycoumarin is recently demonstrated to protect sea urchin reproductive cells against ultraviolet B damage^{[1][2]}.

REFERENCES

[1]. Born SL, et al. Synthesis and reactivity of coumarin 3,4-epoxide. Drug Metab Dispos. 1997;25(11):1318-1324.



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