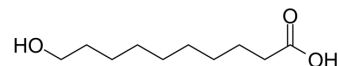


10-Hydroxydecanoic acid

Cat. No.:	HY-Y0148		
CAS No.:	1679-53-4		
Molecular Formula:	C ₁₀ H ₂₀ O ₃		
Molecular Weight:	188.26		
Target:	Others		
Pathway:	Others		
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 : 50 mg/mL (265.59 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.3118 mL	26.5590 mL	53.1180 mL
	5 mM	1.0624 mL	5.3118 mL	10.6236 mL
	10 mM	0.5312 mL	2.6559 mL	5.3118 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 1.25 mg/mL (6.64 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 1.25 mg/mL (6.64 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 1.25 mg/mL (6.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

10-Hydroxydecanoic acid (NSC 15139) is a saturated fatty acid of 10-hydroxy-trans-2-decenoic acid from royal jelly, with anti-inflammatory activity^[1].

REFERENCES

[1]. Takahashi K, et al. Inhibitory effect of 10-hydroxydecanoic acid on lipopolysaccharide-induced nitric oxide production via translational downregulation of interferon regulatory factor-1 in RAW264 murine macrophages. Biomed Res. 2013 Aug;34(4):205-14.

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

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