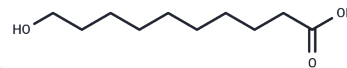


10-Hydroxydecanoic Acid

Chemical Properties

CAS No. :	1679-53-4
Formula:	C ₁₀ H ₂₀ O ₃
Molecular Weight:	188.26
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	10-Hydroxydecanoic Acid (NSC 15139) has antibacterial, anti - cancer and anti - radiation activity.
Targets(IC50)	NF-κB,Caspase,Antibacterial,NO Synthase,Parasite,Autophagy,RANKL/RANK,Interleukin, TNF,MDM-2/p53

Solubility Information

Solubility	DMSO: 257.5 mg/mL (1367.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (53.12 mM),Suspension. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (5.31 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.3118 mL	26.559 mL	53.118 mL
5 mM	1.0624 mL	5.3118 mL	10.6236 mL
10 mM	0.5312 mL	2.6559 mL	5.3118 mL
50 mM	0.1062 mL	0.5312 mL	1.0624 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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