

D-Glucuronic acid

Chemical Properties

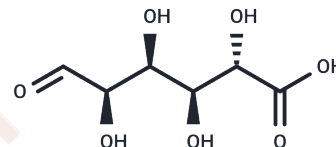
CAS No. : 6556-12-3

Formula: C₆H₁₀O₇

Molecular Weight: 194.14

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	D-Glucuronic acid is an important intermediate isolated from many gums. It has anti-inflammatory effects on the skin. It and its derivative glucuronolactone act as preventive liver detoxifiers for human health.
Targets(IC50)	Endogenous Metabolite,TLR

Solubility Information

Solubility	DMSO: 257.5 mg/mL (1326.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (12.88 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	5.1509 mL	25.7546 mL	51.5092 mL
5 mM	1.0302 mL	5.1509 mL	10.3018 mL
10 mM	0.5151 mL	2.5755 mL	5.1509 mL
50 mM	0.103 mL	0.5151 mL	1.0302 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

Wu, C., Hoang, H., Liu, L., & Fairlie, D. (2018). Glucuronic acid as a helix-inducing linker in short peptides. *Chemical Communications*, 54(17), 2162-2165. doi: 10.1039/c7cc09785a

Zhang H, Cai J, Li C, et al. Wogonin inhibits latent HIV-1 reactivation by downregulating histone crotonylation. *Phytomedicine*.2023: 154855.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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