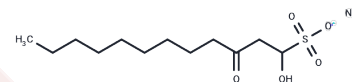


Sodium Houttuifonate

Chemical Properties

CAS No. : 83766-73-8
 Formula: C₁₂H₂₃NaO₅S
 Molecular Weight: 302.36
 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	Sodium Houttuifonate (Houttuynin sodium bisulfite), the active compound of the Houttuynia plant, is mainly used for treating purulent skin infections, respiratory tract infections, including pneumonia in elderly patients, and chronic bronchitis.
Targets(IC50)	NF-κB,Antibacterial,Antifungal
In vitro	Treatment with sodium houttuifonate results in an increase in the expression of c-Fos protein in macrophages, while the phosphorylation level of extracellular signal-related kinase 1/2 (ERK1/2) is not affected by the treatment[1].
In vivo	Sodium houttuifonate has been shown to protect against cationized bovine serum albumin (C-BSA)-induced glomerulonephritis in BALB/C mice through the suppression of the urine protein, morphological character and monocyte chemotactic protein 1 (MCP-1) [1].

Solubility Information

Solubility	DMSO: 17.86 mg/mL (59.07 mM),Sonication is recommended. H ₂ O: 3.33 mg/mL (11.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3073 mL	16.5366 mL	33.0732 mL
5 mM	0.6615 mL	3.3073 mL	6.6146 mL
10 mM	0.3307 mL	1.6537 mL	3.3073 mL
50 mM	0.0661 mL	0.3307 mL	0.6615 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

Chen J, Wang W, Shi C, Fang J. A comparative study of sodium houttuynonate and 2-undecanone for their in vitro and in vivo anti-inflammatory activities and stabilities. *Int J Mol Sci.* 2014;15(12):22978-22994. Published 2014 Dec 11. doi:10.3390/ijms151222978

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