

1-Hydroxy-ibuprofen

Chemical Properties

CAS No. :	53949-53-4
Formula:	C ₁₃ H ₁₈ O ₃
Molecular Weight:	222.28
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	1-Hydroxy Ibuprofen, a metabolite of Ibuprofen in <i>P. australis</i> [1], functions as an anti-inflammatory inhibitor specifically targeting COX-1 and COX-2, with inhibitory concentration 50 (IC ₅₀) values of 13 μM and 370 μM, respectively[1].
Targets(IC ₅₀)	Others,COX

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4988 mL	22.4942 mL	44.9883 mL
5 mM	0.8998 mL	4.4988 mL	8.9977 mL
10 mM	0.4499 mL	2.2494 mL	4.4988 mL
50 mM	0.090 mL	0.4499 mL	0.8998 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

Yujie He, et al. Metabolism of Ibuprofen by *Phragmites australis*: Uptake and Phytodegradation. *Environ Sci Technol.* 2017 Apr 18;51(8):4576-4584.

Noreen Y, et al. Development of a radiochemical cyclooxygenase-1 and -2 in vitro assay for identification of natural products as inhibitors of prostaglandin biosynthesis. *J Nat Prod.* 1998 Jan;61(1):2-7.

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