

Ibuprofen Impurity K

Chemical Properties

CAS No. :	43153-07-7
Formula:	C10H10O3
Molecular Weight:	178.185
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Ibuprofen Impurity K is a compound that serves as an impurity in Ibuprofen. Ibuprofen itself is an anti-inflammatory inhibitor specifically designed to target COX-1 and COX-2. It exhibits inhibitory activity with IC50 values of 13 μ M and 370 μ M for COX-1 and COX-2, respectively.
Targets(IC50)	Others,COX

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.612 mL	28.0599 mL	56.1199 mL
5 mM	1.1224 mL	5.612 mL	11.224 mL
10 mM	0.5612 mL	2.806 mL	5.612 mL
50 mM	0.1122 mL	0.5612 mL	1.1224 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

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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