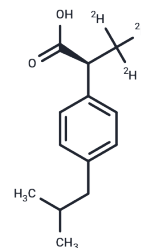


(S)-(+)-Ibuprofen-D3

Chemical Properties

CAS No. :	1329643-44-8
Formula:	C ₁₃ H ₁₈ O ₂
Molecular Weight:	209.3
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	(S)-(+)-Ibuprofen-D3 is a deuterium labeled (S)- (+)-Ibuprofen (T0448). (S)- (+)-Ibuprofen is the S (+)-enantiomer of Ibuprofen ,it is an inhibitor of COX-1 and COX-2 activity (IC50s of 2.1 μM and 1.6 μM).
Targets(IC50)	COX

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7778 mL	23.8892 mL	47.7783 mL
5 mM	0.9556 mL	4.7778 mL	9.5557 mL
10 mM	0.4778 mL	2.3889 mL	4.7778 mL
50 mM	0.0956 mL	0.4778 mL	0.9556 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

Evans AM, et al. Comparative pharmacology of S(+)-ibuprofen and (RS)-ibuprofen. Clin Rheumatol. 2001 Nov;20 Suppl 1:S9-14.

Xu HR, et al. The effect of CYP2C19 activity on pharmacokinetics of lansoprazole and its active metabolites in healthy subjects. Pharm Biol. 2010 Aug;48(8):947-52.

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