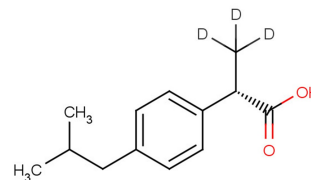


(S)-(+)-Ibuprofen D3

Chemical Properties

CAS No.:	1329643-44-8
Formula:	C ₁₃ H ₁₅ D ₃ O ₂
Molecular Weight:	209.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	(S)-(+)-Ibuprofen D3 is a deuterium labeled (S)-(+)-Ibuprofen. (S)-(+)-Ibuprofen is the S(+)-enantiomer of Ibuprofen, it is an inhibitor of COX-1 and COX-2 activity (IC ₅₀ s of 2.1 μM and 1.6 μM).
Targets(IC ₅₀)	COX-1: 2.1 μM COX-2: 1.6 μM

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.778 mL	23.889 mL	47.778 mL
5 mM	0.956 mL	4.778 mL	9.556 mL
10 mM	0.478 mL	2.389 mL	4.778 mL
50 mM	0.096 mL	0.478 mL	0.956 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

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.

Inhibitors · Natural Compounds · Compound Libraries

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