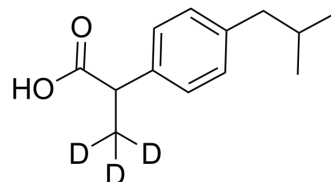


Ibuprofen-d₃

Cat. No.:	HY-78131S
CAS No.:	121662-14-4
Molecular Formula:	C ₁₃ H ₁₅ D ₃ O ₂
Molecular Weight:	209.3
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (477.78 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	
				5 mg	
				10 mg	
				10 mM	
			1 mg	5 mg	10 mg
	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
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.94 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.94 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.94 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Ibuprofen-d ₃ is a deuterium labeled Ibuprofen. Ibuprofen is a COX-1 and COX-2 inhibitor with IC ₅₀ s of 13 μM and 370 μM[1].
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REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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