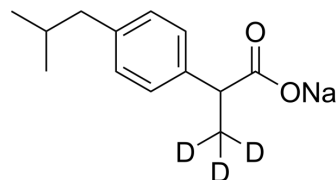


Ibuprofen-d₃ sodium

Cat. No.:	HY-78131CS
CAS No.:	1219805-09-0
Molecular Formula:	C ₁₃ H ₁₄ D ₃ NaO ₂
Molecular Weight:	231.28
Target:	Apoptosis; COX; Isotope-Labeled Compounds
Pathway:	Apoptosis; Immunology/Inflammation; Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (216.19 mM)
 Ethanol : ≥ 50 mg/mL (216.19 mM)
 DMF : ≥ 30 mg/mL (129.71 mM)
 PBS (pH 7.2) : ≥ 2 mg/mL (8.65 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.3238 mL	21.6188 mL	43.2376 mL
	5 mM	0.8648 mL	4.3238 mL	8.6475 mL
	10 mM	0.4324 mL	2.1619 mL	4.3238 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Ibuprofen-d₃ (sodium) is the deuterium labeled Ibuprofen sodium[1].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

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

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