Product Data Sheet

(Rac)-Atropine-d₃

 Cat. No.:
 HY-B1205S

 CAS No.:
 1276197-36-4

 Molecular Formula:
 C₁₇H₂₀D₃NO₃

 Molecular Weight:
 292.39

Target: mAChR; Endogenous Metabolite; Isotope-Labeled Compounds

Pathway: GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease; Others

Storage: Powder -20°C 3 years

In solvent

4°C 2 years
-80°C 6 months
-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 50 mg/mL (171.00 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.4201 mL	17.1004 mL	34.2009 mL
	5 mM	0.6840 mL	3.4201 mL	6.8402 mL
	10 mM	0.3420 mL	1.7100 mL	3.4201 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: ≥ 1.25 mg/mL (4.28 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (4.28 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (4.28 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(Rac)-Atropine-d₃ is the deuterium labeled (Rac)-Atropine[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	
	um Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.
Cauti	ion: Product has not been fully validated for medical applications. For research use only.
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