Propantheline-d_3 bromide

Cat. No.: HY-B1188S

CAS No.: 64717-35-7

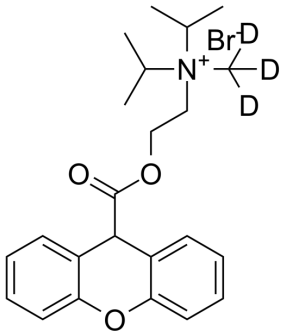
Molecular Formula: $C_{23}H_{27}D_3BrNO_3$

Molecular Weight: 451.41

Target: mAChR

Pathway: GPCR/G Protein; Neuronal Signaling

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 : 100 mg/mL (221.53 mM; Need ultrasonic)
DMSO : ≥ 100 mg/mL (221.53 mM)
H2O : 50 mg/mL (110.76 mM; Need ultrasonic)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2153 mL	11.0764 mL	22.1528 mL
	5 mM	0.4431 mL	2.2153 mL	4.4306 mL
	10 mM	0.2215 mL	1.1076 mL	2.2153 mL

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

BIOLOGICAL ACTIVITY

Description

Propantheline-d_3 (bromide) is the deuterium labeled Propantheline bromide. Propantheline bromide is an antimuscarinic agent, used for the treatment of hyperhidrosis, cramps or spasms of the stomach, intestines or bladder, and enuresis.

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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