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Produktinformation



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Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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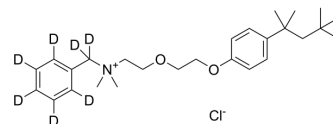
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Benzethonium-d₇ chloride

Cat. No.: HY-B0942S
Molecular Formula: C₂₇H₃₅D₇ClNO₂
Molecular Weight: 455.12
Target: nAChR; Isotope-Labeled Compounds
Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling; 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 : 33.33 mg/mL (73.23 mM; Need ultrasonic)
 DMSO : 33.33 mg/mL (73.23 mM; Need ultrasonic)
 H₂O : 20 mg/mL (43.94 mM; Need ultrasonic)
 H₂O : 20 mg/mL (43.94 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.1972 mL	10.9861 mL	21.9722 mL
	5 mM		0.4394 mL	2.1972 mL	4.3944 mL
	10 mM		0.2197 mL	1.0986 mL	2.1972 mL

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

BIOLOGICAL ACTIVITY

Description

Benzethonium-d₇ chloride is the deuterium labeled Benzethonium chloride. Benzethonium chloride inhibit human recombinant α₇ and α₄β₂ neuronal nicotinic acetylcholine receptors in *Xenopus* oocytes.

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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