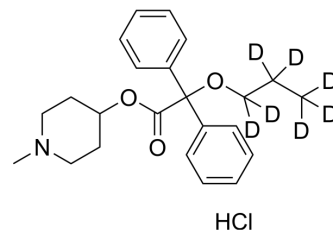


## Propiverine-d<sub>7</sub> hydrochloride

<b>Cat. No.:</b>	HY-116408AS
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>23</sub> D <sub>7</sub> ClNO <sub>3</sub>
<b>Molecular Weight:</b>	410.99
<b>Target:</b>	mAChR; Calcium Channel; Isotope-Labeled Compounds
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling; Membrane Transporter/Ion Channel; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Propiverine-d <sub>7</sub> (hydrochloride) is the deuterium labeled Propiverine hydrochloride. Propiverine hydrochloride is a bladder spasmolytic with calcium antagonistic and anticholinergic properties. Propiverine hydrochloride can be used for the research of overactive bladder and urinary incontinence[1][2].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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.
- [2]. Kitta T, et, al. Effects of propiverine hydrochloride, an anticholinergic agent, on urethral continence mechanisms and plasma catecholamine concentration in rats. *Int Urogynecol J.* 2013 Apr; 24(4): 683-8.
- [3]. Ito Y, et, al. Muscarinic Receptor Binding and Plasma Drug Concentration after the Oral Administration of Propiverine in Mice. *Low Urin Tract Symptoms.* 2010 Apr; 2(1):43-9.

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

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