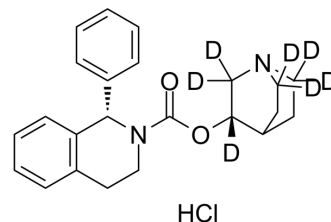


## Solifenacin-d7 hydrochloride

<b>Cat. No.:</b>	HY-I0230S
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>20</sub> D <sub>7</sub> ClN <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	405.97
<b>Target:</b>	mAChR
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Solifenacin-d7 hydrochloride is the deuterium labeled Solifenacin hydrochloride. Solifenacin hydrochloride (YM905 hydrochloride) is a muscarinic receptor antagonist, with pK <sub>s</sub> of 7.6, 6.9 and 8.0 for M <sub>1</sub> , M <sub>2</sub> and M <sub>3</sub> receptors, respectively.
<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

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- [4]. Ohtake A, Sato S, Sasamata M, Miyata K. The forefront for novel therapeutic agents based on the pathophysiology of lower urinary tract dysfunction: ameliorative effect of solifenacin succinate (Vesicare), a bladder-selective antimuscarinic agent, on overactive bladder symptoms, especially urgency episodes. *J Pharmacol Sci.* 2010;112(2):135-41. Epub 2010 Feb 4.
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- [6]. Choo MS, Lee JZ, Lee JB, Kim YH, Jung HC, Lee KS, Kim JC, Seo JT, Paick JS, Kim HJ, Na YG, Lee JG. Efficacy and safety of solifenacin succinate in Korean patients with overactive bladder: a randomised, prospective, double-blind, multicentre study. *Int J Clin Pract.* 2008 Nov;62(11):1675-83.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA