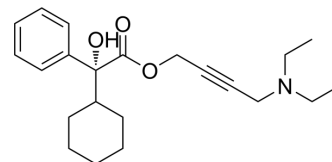


(R)-Oxybutynin

Cat. No.:	HY-B0267C
CAS No.:	119618-21-2
Molecular Formula:	C ₂₂ H ₃₁ NO ₃
Molecular Weight:	357.49
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(R)-Oxybutynin (Aroxybutynin) is the racemic isomer of Oxybutynin and an orally active muscarinic receptor antagonist. (R)-Oxybutynin has antispasmodic, antimuscarinic, and anticholinergic activities and competitively antagonizes carbachol-induced contractions. (R)-Oxybutynin can be used to study urinary incontinence caused by neurogenic bladder dysfunction [1][2][3].
IC₅₀ & Target	Muscarinic receptor, mAChR ^{[1][2]}
In Vitro	The metabolism of Oxybutynin is stereoselective and it is extensively metabolized primarily by cytochrome P450 3A4 to form NDO. (R)-Oxybutynin has lower plasma concentrations than the other enantiomer ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Smith ER, et al. Comparison of the antimuscarinic and antispasmodic actions of racemic oxybutynin and desethyloxybutynin and their enantiomers with those of racemic terodiline. *Arzneimittelforschung*. 1998 Oct;48(10):1012-8.
- [2]. Zobrist RH, et al. Pharmacokinetics of the R- and S-enantiomers of oxybutynin and N-desethyloxybutynin following oral and transdermal administration of the racemate in healthy volunteers. *Pharm Res*. 2001 Jul;18(7):1029-34.
- [3]. Siddiqui MA, et al. Oxybutynin extended-release: a review of its use in the management of overactive bladder. *Drugs*. 2004;64(8):885-912.

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

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