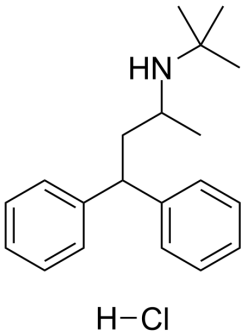
Terodiline hydrochloride

Cat. No.:	HY-16489A
CAS No.:	7082-21-5
Molecular Formula:	$C_{20}H_{28}ClN$
Molecular Weight:	317.9
Target:	mAChR; Calcium Channel
Pathway:	GPCR/G Protein; Neuronal Signaling; Membrane Transporter/Ion Channel
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Terodiline hydrochloride is an M1-selective muscarinic receptor (mAChR) antagonist with K_bs of 15, 160, 280, and 198 nM in rabbit vas deferens (M1), atria (M2), bladder (M3) and ileal muscle (M3), respectively. Terodiline hydrochloride also is a Ca^{2+} blocker. Terodiline hydrochloride acts as a treatment for urinary frequency and urge incontinence[1].
IC_{50} & Target	mAChR[1] Ca^{2+} channel[1]
In Vivo	Terodiline (80 mg/kg; S.C.) is equipotent in inhibiting intravesical bladder pressure and carbachol-induced salivary secretion (ID_{50}= 24 and 35 mg/kg, respectively), and in increasing pupil diameter (ED_{50}=59 mg/kg)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Fmale or male Hartley guinea pigs (200-600 g)[1]
Dosage:	80 mg/kg
Administration:	Administered S.C.
Result:	Yielded an ID_{50} of 24±6 mg/kg. Higher doses were lethal.

REFERENCES

[1]. Noronha-Blob L, et al. (+/-)-Terodiline: an M1-selective muscarinic receptor antagonist. In vivo effects at muscarinic receptors mediating urinary bladder contraction, mydriasis and salivary secretion. Eur J Pharmacol. 1991 Aug 29;201(2-3):135-42.

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

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