Terodiline hydrochloride

Cat. No.: HY-16489A

CAS No.: 7082-21-5

Molecular Formula: $C_{20}H_{28}ClN$

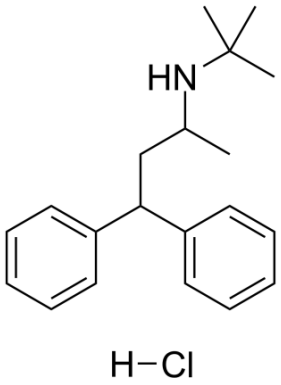
Molecular Weight: 317.9

Target: mAChR; Calcium Channel

Pathway: GPCR/G Protein; Neuronal Signaling; Membrane Transporter/Ion Channel

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA