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DATASHEET

(+)-Tubocurarine chloride

Product overview

| | |
|--------------------------|--|
| Name | (+)-Tubocurarine chloride |
| Cat No | HB2050 |
| Alternative names | DTC, d-tubocurarine |
| Biological action | Antagonist |
| Purity | >98% |
| Description | Nicotinic acetylcholine receptors (nAChR) antagonist. Neuromuscular blocker. |

Biological Data

Biological description Tubocurarine is a competitive, non-selective nicotinic acetylcholine receptors (nAChR) antagonist which blocks neuromuscular transmission.

Tubocurarine is also a GABA_A and 5-HT₃ receptor antagonist.

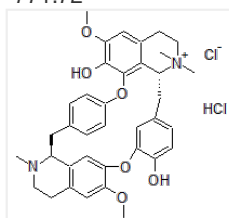
Solubility & Handling

| | |
|-----------------------------|--|
| Storage instructions | +4 °C (desiccate) |
| Solubility overview | Soluble in water (25 mM), and in DMSO (10 mM) |
| Important | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use |

Chemical Data

Chemical name (13aR,25aS)-2,3,13a,14,15,16,25,25a-Octahydro-9,19-dihydroxy-18,29-dimethoxy-1,14,14-trimethyl-13H-4,6:21,24-dietheno-8,12-metheno-1H-pyrido[3',2':14,15][1,11]dioxacycloicosino[2,3,4-ij]isoquinolinium chloride hydrochloride pentahydrate 771.72

Molecular Weight
Chemical structure



| | |
|---------------------------|--|
| Molecular Formula | C ₃₇ H ₄₁ ClN ₂ O ₆ ·HCl·5H ₂ O |
| CAS Number | 6989-98-6 |
| PubChem identifier | 23422 |
| SMILES | CN1CCC2=CC(=C3C=C2[C@@H]1CC4=CC=C(C=C4)OC5=C6[C@@H](CC7=CC(=C(C=C7)O)O3)[N+](CCC6=CC(=C5O)OC)(C)C)OC.O.O.O.O.Cl.[Cl-] |
| InChi | InChI=1S/C37H40N2O6.2ClH.5H2O/c1-38-14-12-24-19-32(42-4)33-21-27(24)28(38)16-22-6-9-26(10-7-22)44-37-35-25(20-34(43-5)36(37)41)13-15-39(2,3)29(35)17-23-8-11-30(40)31(18-23)45-33;;;;;;;;;/h6-11,18-21,28-29H,12-17H2,1-5H3,(H-,40,41);2*1H;5*1H2/t28-,29+;;;;;;;; |
| InChiKey | WMIZITXEJNQAQK-GGDSLZADSA-N |
| MDL number | MFCD00150157 |
| Appearance | White solid |

References

Pre-and post-junctional effects of tubocurarine and other nicotinic antagonists during repetitive stimulation in the rat.

Gibb and Marhsall (1984) J Physiol 351

PubMedID [6747867](#)

The actions of tubocurarine at the frog neuromuscular junction.

Colquhoun et al (1979) J Physiol. 293

PubMedID [315462](#)

The effect of (+)-tubocurarine on neuromuscular transmission during repetitive stimulation in the rat, mouse, and frog.

Magleby et al (1981) J Physiol. 312

PubMedID [6267269](#)
