

Product Data Sheet

Product Name: TMB 8 (hydrochloride)

Cat. No.: GC19438

Chemical Properties

Cas. No. 53464-72-5

SMILES COC1=C(OC)C(OC)=CC(C(OCCCCCCCCCN(CC)CC)=O)=C1.Cl

Formula $C_{22}H_{37}NO_5 \cdot HCl$ M.Wt 432

Solubility Chloroform: Slightly
Soluble, Methanol: Slightly
Soluble, Water: Slightly Soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

TMB 8 is a non-competitive antagonist of nicotinic acetylcholine receptors (nAChRs) with IC₅₀ values of 390 and 350 nM, respectively, for human muscle-type and $\alpha 3\beta 4$ subunit-containing ganglionic nAChRs expressed in TE671/RD or SH-SY5Y cells. It inhibits nicotine-induced dopamine release from rat brain synaptosomes (IC₅₀ = 480 nM). TMB 8 also reduces calcium availability in smooth and skeletal muscle, blocking the contractile response in isolated rabbit aortic strip when used at a

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

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concentration of 50 μ M and inhibiting calcium influx and efflux in isolated guinea pig ileum when used at a concentration of 65 μ M. It has been used in the study of intracellular calcium dynamics, particularly in smooth muscle. TMB 8 also inhibits protein kinase C (PKC) activity in a dose-dependent manner.

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