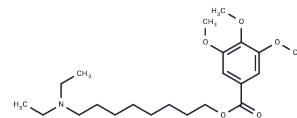


## TMB 8 (hydrochloride)

## Chemical Properties

CAS No. :	53464-72-5
Formula:	C <sub>22</sub> H <sub>38</sub> ClNO <sub>5</sub>
Molecular Weight:	431.99
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	TMB 8 is a non-competitive antagonist of nicotinic acetylcholine receptors (nAChRs) with IC <sub>50</sub> values of 390 and 350 nM, respectively, for human muscle-type and α <sub>3</sub> β <sub>4</sub> subunit-containing ganglionic nAChRs expressed in TE671/RD or SH-SY5Y cells. It inhibits nicotine-induced dopamine release from rat brain synaptosomes (IC <sub>50</sub> = 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 concentration of 50 μM and inhibiting calcium influx and efflux in isolated guinea pig ileum when used at a concentration of 65 μM. 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.
Targets(IC <sub>50</sub> )	Others, Calcium Channel

## Solubility Information

Solubility	Methanol: Slightly soluble H <sub>2</sub> O: Slightly soluble Chloroform: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.3149 mL	11.5743 mL	23.1487 mL
5 mM	0.463 mL	2.3149 mL	4.6297 mL
10 mM	0.2315 mL	1.1574 mL	2.3149 mL
50 mM	0.0463 mL	0.2315 mL	0.463 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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