

Certificate of Analysis

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Product Name: MG 624

Catalog No.: 1356

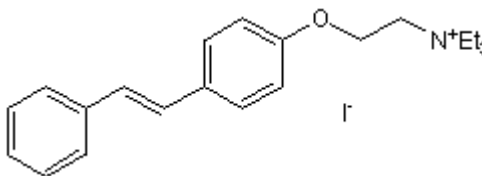
Batch No.: 6

CAS Number: 77257-42-2

IUPAC Name: *N,N,N*-Triethyl-2-[4-(2-phenylethenyl)phenoxy]ethanaminium iodide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₃₀NOI
Batch Molecular Weight: 451.39
Physical Appearance: White solid
Solubility: DMSO to 20 mM
 ethanol to 10 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.41 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: Between 216 - 217°C
HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.54	6.7	3.1
Found	58.46	6.72	3.06

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

A selective antagonist for neuronal $\alpha 7$ subunit- containing nAChR subtypes. Inhibits α -Bgtx binding to chick $\alpha 7$ and $\alpha 4\beta 2$ subtypes with K_i values of 106 nM and 84 μ M respectively.

Physical and Chemical Properties:

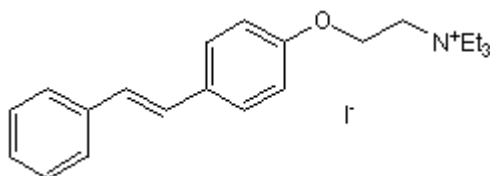
Batch Molecular Formula: $C_{22}H_{30}NOI$

Batch Molecular Weight: 451.39

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 20 mM

ethanol to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Gotti et al (1998) 4-Oxystilbene compounds are selective ligands for neuronal nicotinic abungarotoxin receptors. *Br.J.Pharmacol.* **124** 1197. PMID: 9720791.

Maggi et al (1999) Selective effects of a 4-oxystilbene derivative on wild and mutant neuronal chick $\alpha 7$ nicotinic receptor. *Br.J.Pharmacol.* **126** 285. PMID: 10051147.

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