

Product Name: LOE 908 hydrochloride

Catalog No.: 2314

Batch No.: 2

CAS Number: 143482-60-4

IUPAC Name: 3,4-Dihydro-6,7-dimethoxy- α -phenyl-*N,N*-bis[2-(2,3,4-trimethoxyphenyl)ethyl]-1-isoquinolineacetamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₁H₄₈N₂O₉·HCl·½H₂O

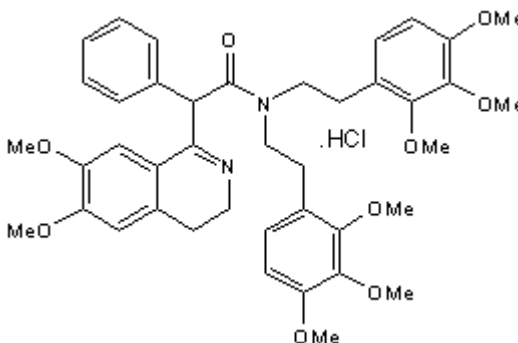
Batch Molecular Weight: 758.3

Physical Appearance: Yellow solid

Solubility: water to 50 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.26 (Dichloromethane:Methanol [9:1])

HPLC: Shows >98.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.94	6.65	3.69
Found	64.98	6.66	3.62

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Description:

Broad spectrum cation channel blocker. Inhibits several cation channels including store-operated calcium channels (SOCs), voltage-operated calcium channels (VOCs), non-selective cation channels (NSCCs), AMPA, NMDA, Na⁺ and K⁺ channels. Neuroprotective; reduces cortical infarct size and improves neurological outcome following middle cerebral artery occlusion.

Physical and Chemical Properties:

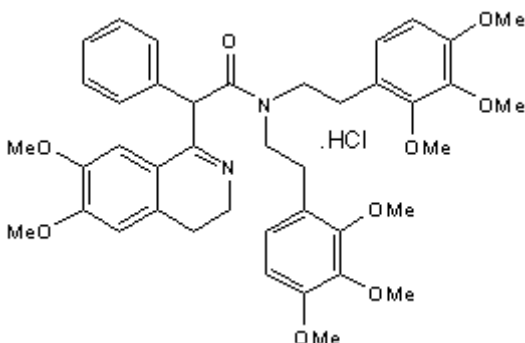
Batch Molecular Formula: C₄₁H₄₈N₂O₉.HCl.½H₂O

Batch Molecular Weight: 758.3

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 50 mM
DMSO to 100 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:

Krause et al (1998) LOE 908 blocks delayed rectifier type potassium channels in PC12 cells and cortical neurons in culture. *Biochem.Biophys.Res.Comm.* **244** 659. PMID: 9535721.

Tatlisumak et al (2000) Broad-spectrum cation channel inhibition by LOE 908 MS reduces infarct volume in vivo and postmortem in focal cerebral ischemia in the rat. *J.Neurol.Sci.* **178** 107. PMID: 11018702.

Christensen et al (2005) The broad-spectrum cation channel blocker pinokalant (LOE 908 MS) reduces brain infarct volume in rats: a temperature-controlled histological study. *Basic Clin.Pharmacol.Toxicol.* **96** 316. PMID: 15755315.

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