

Product Name: (S)-SNAP 5114

Catalog No.: 1561

Batch No.: 2

CAS Number: 157604-55-2

IUPAC Name: 1-[2-[tris(4-methoxyphenyl)methoxy]ethyl]-(S)-3-piperidinecarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{30}H_{35}NO_6 \cdot \frac{1}{4}H_2O$

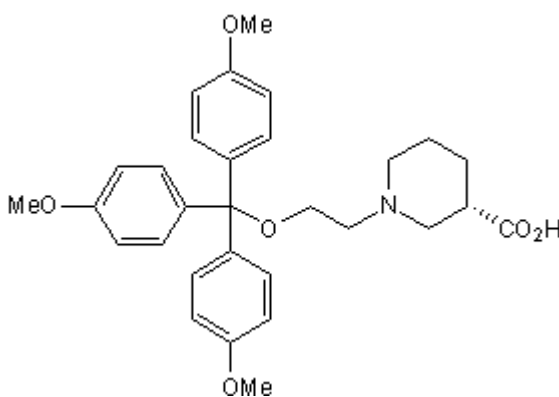
Batch Molecular Weight: 510.11

Physical Appearance: White solid

Solubility: ethanol to 50 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	70.64	7.01	2.75
Found	70.34	7	2.86

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

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Description:

GABA transport inhibitor, showing selectivity for GAT-3 and GAT-2 (IC₅₀ values are 5, 21 and 388 µM for hGAT-3, rGAT-2 and hGAT-1 respectively). Increases thalamic GABA levels and is an anticonvulsant following systemic administration in vivo.

Physical and Chemical Properties:

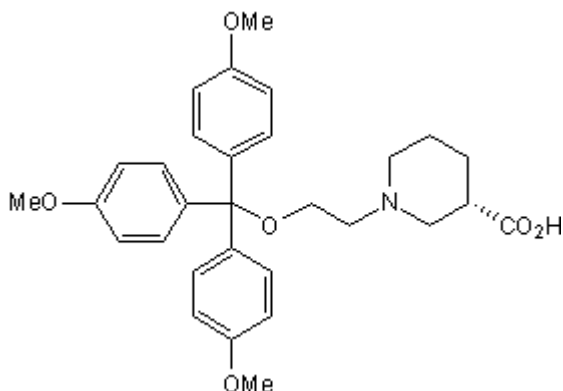
Batch Molecular Formula: C₃₀H₃₅NO₆·¼H₂O

Batch Molecular Weight: 510.11

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

ethanol 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:

Borden *et al* (1994) Cloning of the human homologue of the GABA transporter GAT-3 and identification of a novel inhibitor with selectivity for this site. *Receptors Channels* **2** 207. PMID: 7874447.

Borden (1996) GABA transporter heterogeneity: pharmacology and cellular localization. *Neurochem.Int.* **29** 335. PMID: 8939442.

Dalby (2000) GABA-level increasing and anticonvulsant effects of three different GABA uptake inhibitors. *Neuropharmacology* **39** 2399. PMID: 10974324.

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