

**Product Name:** (S)-SNAP 5114

**Catalog No.:** 1561

**Batch No.:** 3

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<sub>30</sub>H<sub>35</sub>NO<sub>6</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

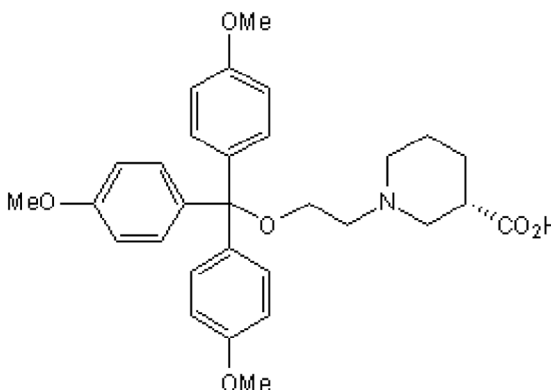
**Batch Molecular Weight:** 519.12

**Physical Appearance:** White solid

**Solubility:** ethanol to 50 mM  
DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.25 (Dichloromethane:Methanol [9:1])

**HPLC:** Shows 98.3% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	69.41	7.09	2.7
Found	69.44	7.03	2.77

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**Description:**

(S)-SNAP 5114 is a GABA transport inhibitor, showing selectivity for GAT-3 and GAT-2 (IC<sub>50</sub> 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:**

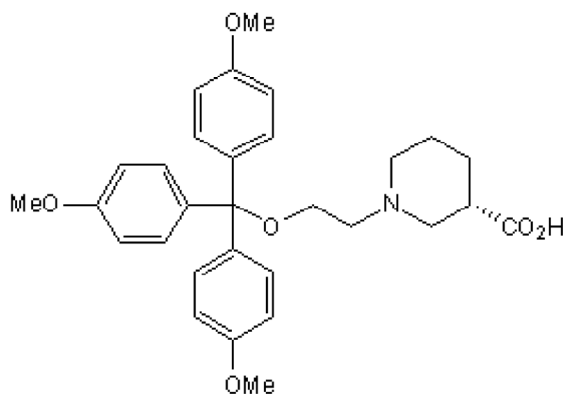
Batch Molecular Formula: C<sub>30</sub>H<sub>35</sub>NO<sub>6</sub>·¾H<sub>2</sub>O

Batch Molecular Weight: 519.12

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

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

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

**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.

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