

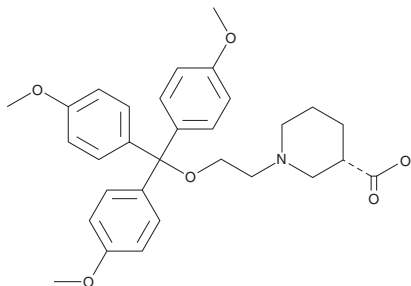
PRODUCT INFORMATION



SNAP 5114

Item No. 44097

CAS Registry No.: 157604-55-2
Formal Name: 1-[2-[tris(4-methoxyphenyl)methoxy]ethyl]-3S-piperidinecarboxylic acid
MF: C₃₀H₃₅NO₆
FW: 505.6
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

SNAP 5114 is supplied as a solid. A stock solution may be made by dissolving the SNAP 5114 in the solvent of choice, which should be purged with an inert gas. SNAP 5114 is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in acetonitrile.

Description

SNAP 5114 is an inhibitor of GABA transporter 2 (GAT2) and GAT3 (IC₅₀s = 21 and 5 μM, respectively).¹ It is selective for GAT2 and GAT3 over GAT1 and Betaine/GABA transporter 1 (BGT1) in a GABA transport assay (IC₅₀s = >200 and 140 μM, respectively). SNAP 5114 decreases sound-induced seizures in a mouse model of audiogenic seizures (ED₅₀ = 26 mg/kg).² It reduces immobility time in the forced swim test in mice when administered at a dose of 30 mg/kg.³ SNAP 5114 decreases the nocifensive response in the acetic acid-induced writhing test in mice (ED₅₀ = 8.6 mg/kg).

References

1. Dhar, T.G., Borden, L.A., Tyagarajan, S., *et al.* Design, synthesis and evaluation of substituted triarylpipecotic acid derivatives as GABA uptake inhibitors: Identification of a ligand with moderate affinity and selectivity for the cloned human GABA transporter GAT-3. *J. Med. Chem.* **37**, 2334-2342 (1994).
2. Madsen, K.K., Clausen, R.P., Larsson, O.M., *et al.* Synaptic and extrasynaptic GABA transporters as targets for anti-epileptic drugs. *J. Neurochem.* **109** (Suppl. 1), 139-144 (2009).
3. Sałat, K., Kulig, K., Gajda, J., *et al.* Evaluation of anxiolytic-like, anticonvulsant, antidepressant-like and antinociceptive properties of new 2-substituted 4-hydroxybutanamides with affinity for GABA transporters in mice. *Pharmacol. Biochem. Behav.* **110**, 145-153 (2013).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM