



# SZABO SCANDIC

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## Produktinformation



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### SZABO-SCANDIC HandelsgmbH

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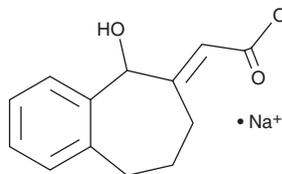
# PRODUCT INFORMATION



## NCS-382 (sodium salt)

Item No. 29315

**CAS Registry No.:** 131733-92-1  
**Formal Name:** 2-(5,7,8,9-tetrahydro-5-hydroxy-6H-benzocyclohepten-6-ylidene)-acetic acid, monosodium salt  
**MF:** C<sub>13</sub>H<sub>13</sub>O<sub>3</sub> • Na  
**FW:** 240.2  
**Purity:** ≥95%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



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

### Laboratory Procedures

NCS-382 (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the NCS-382 (sodium salt) in the solvent of choice, which should be purged with an inert gas. NCS-382 (sodium salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of NCS-382 (sodium salt) in these solvents is approximately 5, 12, and 20 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of NCS-382 (sodium salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of NCS-382 (sodium salt) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

NCS-382 is a  $\gamma$ -hydroxybutyrate receptor (GHBR) antagonist (IC<sub>50</sub>s = 134.1 and 201.3 nM in isolated rat striatal and hippocampal membranes, respectively, in radioligand binding assays).<sup>1</sup> It is selective for GHBR over GABA binding sites in rat brain synaptic membranes at concentrations of 1 and 10  $\mu$ M. NCS-382 decreases GHB-induced increases in inositol phosphate accumulation and cGMP levels in isolated rat hippocampal slices (IC<sub>50</sub>s = 8.6 and 30  $\mu$ M, respectively). It reduces GHB-induced increases in the time mice spent immobile in the forced swim test, indicating anti-sedative activity, when administered at doses of 1.66 and 2.08 mmol/kg.<sup>2</sup> NCS-382 decreases spike and wave discharges in audiogenic seizure-susceptible Swiss Rb mice, as well as a rat model of petit mal epilepsy, when administered at a dose of 2.3 mmol/kg.<sup>1</sup>

### References

1. Maitre, M., Hechler, V., Vayer, P., *et al.* A specific  $\gamma$ -hydroxybutyrate receptor ligand possesses both antagonistic and anticonvulsant properties. *J. Pharmacol. Exp. Ther.* **255**(2), 657-663 (1990).
2. Schmidt, C., Gobaille, S., Hechler, V., *et al.* Anti-sedative and anti-cataleptic properties of NCS-382, a  $\gamma$ -hydroxybutyrate receptor antagonist. *Eur. J. Pharmacol.* **203**(3), 393-397 (1991).

#### 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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