

Certificate of Analysis

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Product Name: Tramiprosate

CAS Number: 3687-18-1

IUPAC Name: 3-Amino-1-propanesulfonic acid

Catalog No.: 3619

EC Number: 222-977-4

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃H₉NO₃S
Batch Molecular Weight: 139.17
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	25.89	6.52	10.06
Found	26.04	6.56	10.04

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

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Description:

Sulfated glycosaminoglycan (sGAG) mimetic that targets soluble amyloid β ($A\beta$) and maintains $A\beta$ in a non-fibrillar form. Decreases $A\beta$ 42-induced neuronal death and inhibits amyloid deposition in vitro. Decreases brain amyloid plaque load by 30%, increases tau polymerization and is brain penetrant. Also a GABA analog that protects against the convulsant and cytotoxic activity of kainic acid in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: $C_3H_9NO_3S$

Batch Molecular Weight: 139.17

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water 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:

Fariello et al (1982) Homotaurine (3 aminopropanesulfonic acid; 3APS) protects from the convulsant and cytotoxic effect of systemically administered kainic acid. *Neurology* **32** 241. PMID: 7199633.

Gervais et al (2007) Targeting soluble $A\beta$ peptide with tramiprosate for the treatment of brain amyloidosis. *Neurobiol.Aging* **28** 537. PMID: 16675063.

Santa-Maria et al (2007) Tramiprosate, a drug of potential interest for the treatment of Alzheimer's disease, promotes an abnormal aggregation of tau. *Mol.Neurodegen.* **2** 17.

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