

Certificate of Analysis

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Product Name: Acamprosate calcium

Catalog No.: 3618

Batch No.: 3

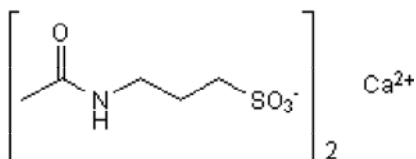
CAS Number: 77337-73-6

EC Number: 278-665-3

IUPAC Name: 3-(Acetylamino)-1-propanesulfonic acid hemicalcium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₅ H ₁₀ NO ₄ S.½ Ca
Batch Molecular Weight:	200.24
Physical Appearance:	White solid
Solubility:	water to 50 mM DMSO to 10 mM with gentle warming
Storage:	Desiccate at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

¹H NMR:	Consistent with structure			
Mass Spectrum:	Consistent with structure			
Microanalysis:	Carbon Hydrogen Nitrogen			
	Theoretical	29.99	5.03	7
	Found	29.89	4.91	6.85

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

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Description:

GABA receptor agonist and modulator of glutamatergic systems. Reduces alcohol consumption in animal models of alcohol addiction. Deuterated analog also available.

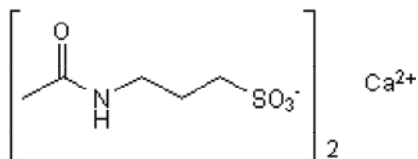
Physical and Chemical Properties:

Batch Molecular Formula: C₅H₁₀NO₄S.½ Ca

Batch Molecular Weight: 200.24

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 50 mM

DMSO to 10 mM with gentle warming

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:

Popp and Lovinger (2000) Interaction of acamprosate with ethanol and spermine on NMDA receptors in primary cultured neurons. *Eur.J.Pharmacol.* **394** 221. PMID: 10771287.

Berton et al (1998) Acamprosate enhances *N*-methyl-D-aspartate receptor-mediated neurotransmission but inhibits presynaptic GABA (B) receptors in nucleus accumbens neurons. *Alcohol Clin.Exp.Res.* **22** 183. PMID: 9514305.

Spanagel et al (1996) Acamprosate and alcohol: I. Effects on alcohol intake following alcohol deprivation in the rat. *Eur.J.Pharmacol.* **305** 39. PMID: 8813529.

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