

Certificate of Analysis

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Product Name: ZAPA sulfate

Catalog No.: 0180

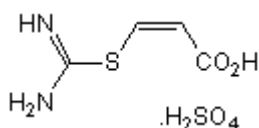
Batch No.: 3

CAS Number: 371962-01-5

IUPAC Name: (Z)-3-[(Aminoiminomethyl)thio]prop-2-enoic acid sulfate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄H₆N₂O₂S.H₂SO₄
Batch Molecular Weight: 244.24
Physical Appearance: White crystalline solid
Solubility: water to 10 mM
Storage: Store at RT
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

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

Product Information

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IUPAC Name: (Z)-3-[(Aminoiminomethyl)thio]prop-2-enoic acid sulfate

Description:

More potent than either GABA or muscimol as an agonist at low affinity GABA_A receptors and is thus a useful ligand to investigate GABA receptors linked to benzodiazepine receptors. Also a GABA_A-p receptor antagonist.

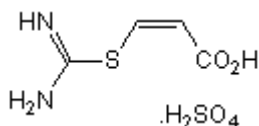
Physical and Chemical Properties:

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Storage: Store at RT

Solubility & Usage Info:

water to 10 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:

Allan et al (1986) Isothiuronium compounds as γ-aminobutyric acid agonists. *Br.J.Pharmacol.* **88** 379. PMID: 3015310.

Holden-Dye and Walker (1988) ZAPA, (Z)-3-[(aminoiminomethyl)thio]-2-propenoic acid hydrochloride, a potent agonist at GABA-receptors on the *Ascaris* muscle cell. *Br.J.Pharmacol.* **95** 3. PMID: 2851353.

Johnston (1996) GABA_C receptors: relatively simple transmitter-gated ion channels? *TIPS* **17** 319. PMID: 8885697.

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