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Certificate of Analysis

www.tocris.com

Product Name: TACA

CAS Number: 38090-53-8 IUPAC Name: *trans*-4-Aminocrotonic acid

Catalog No.: 0181

Batch No.: 7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:
Batch Molecular Weight:
Physical Appearance:
Solubility:
Storage:
Batch Molecular Structure:

C₄H₇NO₂ 101.1 White solid water to 100 mM Store at RT

H₂N____CO₂H

47.14

7.03

13.71

2. ANALYTICAL DATA

TLC:	R _f = 0.4 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])			
Melting Point:	Between 175 - 177°C			
¹ H NMR:	Consistent with structure			
Microanalysis:	Carbon Hydrogen Nitrogen			
	Theoretical 47.52 6.98 13.85			

Found

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

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Print Date: Jan 8th 2016

Batch No.: 7

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Product Name: TACA

CAS Number: 38090-53-8 IUPAC Name: *trans*-4-Aminocrotonic acid

Description:

The trans-isomer of CACA. Potent $GABA_A$ agonist, GABA uptake inhibitor and substrate for GABA-T. Also $GABA_A\text{-}\rho$ agonist.

Physical and Chemical Properties:

Batch Molecular Formula: C₄H₇NO₂ Batch Molecular Weight: 101.1 Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

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).

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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:

Johnston et al (1975) cis and trans-4-Aminocrotonic acid as GABA analogues of restricted conformation. J.Neurochem. 24 157. PMID: 234147.

Johnston et al (1996) GABA_C receptors: relatively simple transmitter-gated ion channels. TiPS 17 319. PMID: 8885697.

Chebib *et al* (1997) Analogues of γ -aminobutyric acid (GABA) and *trans*-4-aminocrotonic acid (TACA) substituted in the 2 position as GABA_C receptor antagonists. Br.J.Pharmacol. **122** 1551. PMID: 9422798.

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