

Certificate of Analysis

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Product Name: SHIP 2a

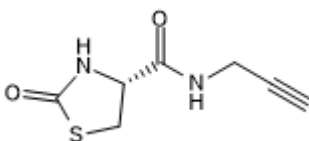
Catalog No.: 6101

Batch No.: 1

IUPAC Name: (R)-2-Oxo-N-2-propyn-1-yl-4-thiazolidinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇H₈N₂O₂S
Batch Molecular Weight: 184.22
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.35 (Ethyl acetate)
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	45.64	4.38	15.21
Found	45.58	4.39	15.26

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

Product Name: SHIP 2a

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Batch No.: 1

IUPAC Name: (R)-2-Oxo-N-2-propyn-1-yl-4-thiazolidinecarboxamide

Description:

Cystathione γ lyase (CSE) inhibitor (IC_{50} = 6.3 μ M). Inhibits H₂S production in mouse aorta homogenates and L-cysteine-induced relaxation of rat aortic rings ex vivo.

Physical and Chemical Properties:

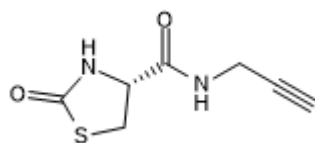
Batch Molecular Formula: C₇H₈N₂O₂S

Batch Molecular Weight: 184.22

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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:

Corvino et al (2016) Fragment-based de novo design of a cystathionine γ -lyase selective inhibitor blocking hydrogen sulfide production. *Sci.Rep.* **6** 34398. PMID: 27708394.

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