

Product Name: SNOB 1 reagent

Catalog No.: 3879

Batch No.: 2

CAS Number: 92924-45-3

IUPAC Name: (3*S*,4*S*,6*R*)-5-{2-Oxo-hexahydro-1*H*-thieno[3,4-*d*]imidazolidin-4-yl}-*N*-(prop-2-en-1-yl)pentanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₂₁N₃O₂S·¼H₂O

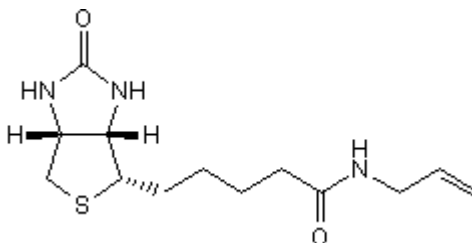
Batch Molecular Weight: 287.89

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 25 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.24	7.53	14.6
Found	54.08	7.53	14.6

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Description:

S-nitrosylated binding (SNOB) reagents detect cysteine residues that have been S-nitrosylated by nitric oxide. SNOB 1 can be used as part of a single-step assay to label S-nitrosylated proteins with biotin for detection by Western blotting or proteomic analysis. Negative SNOB 1 control (Cat. No. 3880) available.

Physical and Chemical Properties:

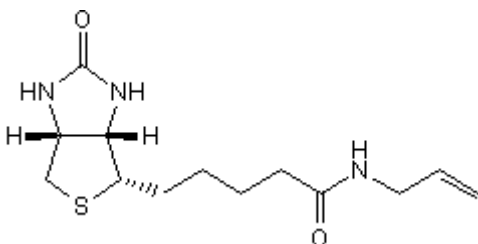
Batch Molecular Formula: C₁₃H₂₁N₃O₂S.¼H₂O

Batch Molecular Weight: 287.89

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 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:

Wang et al (2011) The Moxarella catarrhalis nitric oxide reductase is essential for nitric oxide detoxification. *J.Bacteriology* **193** 2804.

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