

Product Name: Nor NOHA monoacetate

Catalog No.: 6370

Batch No.: 3

CAS Number: 2250019-93-1

IUPAC Name: (2S)-2-Amino-4-[[[(hydroxyamino)iminomethyl]amino]butanoic acid monoacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅H₁₂N₄O₃.C₂H₄O₂.¾H₂O

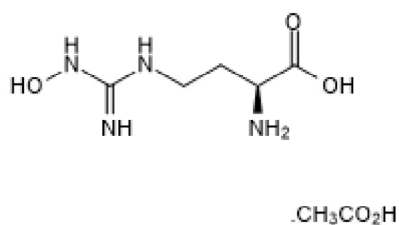
Batch Molecular Weight: 249.74

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	33.67	7.06	22.43
Found	33.54	7.16	22.1

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

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Description:

Nor NOHA monoacetate is a reversible, competitive arginase inhibitor (IC₅₀ = 2 μM). Exhibits 10-fold selectivity for human type II arginase over type I. Enhances the effect of acetylcholine on isolated aortic and mesenteric arterial rings. Inhibits growth of lung carcinoma implants in mice.

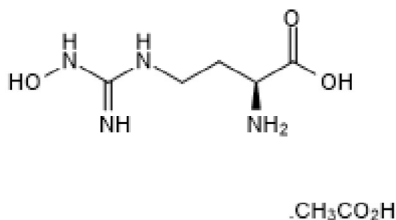
Physical and Chemical Properties:

Batch Molecular Formula: C₅H₁₂N₄O₃·C₂H₄O₂·³/₄H₂O

Batch Molecular Weight: 249.74

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival. Solutions should be made up as soon as the vial is opened.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Huynh et al (2009) The vascular effects of different arginase inhibitors in rat isolated aorta and mesenteric arteries. *Br.J.Pharmacol.* **156** 84. PMID: 19133993.

Rodriguez et al (2004) Arginase I production in the tumor microenvironment by mature myeloid cells inhibits T-cell receptor expression and antigen-specific T-cell responses. *Cancer Res.* **64** 5839. PMID: 15313928.

Colleluori and Ash et al (2001) Classical and slow-binding inhibitors of human type II arginase. *Biochemistry* **40** 9356. PMID: 11478904.

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