bio-techne
TOCRIS

Print Date: Feb 25th 2025

Certificate of Analysis

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Product Name: **Nor NOHA monoacetate** **Catalog No.: 6370** **Batch No.: 3**

CAS Number: 2250019-93-1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_5H_{12}N_4O_3.C_2H_4O_2.¾H_2O$

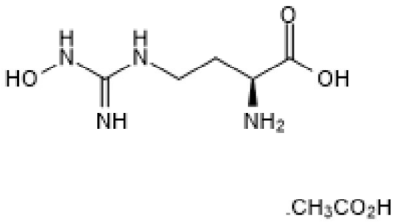
Batch Molecular Weight: 249.74

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



.CH_3CO_2H

2. ANALYTICAL DATA

^{1}H 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

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Description:

Nor NOHA monoacetate is a reversible, competitive arginase inhibitor (IC_{50} = 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.

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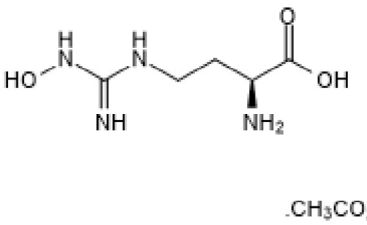

$.CH_3CO_2H$

Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

This compound is hygroscopic and may absorb atmospheric moisture during prolonged storage, causing the solid to become sticky and/or collapse into a gel or glass-like form. Although purity is unaffected, it may be difficult to extract the full quantity from the vial. In such a situation, we recommend that solutions are made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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.