a biotechne brand

Certificate of Analysis

www.tocris.com

Print Date: Jan 18th 2022

Product Name: Muscimol

CAS Number: 2763-96-4 IUPAC Name: 5-Aminomethyl-3-hydroxyisoxazole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_4H_6N_2O_2$.¹/₂H₂O 123.11 Off-white solid water to 100 mM Store at RT

ОH H_2N

2. ANALYTICAL DATA

¹H NMR: Mass Spectrum: Microanalysis:

Consistent with structure			
Consistent with structure			
Carbon Hydrogen Nitrogen			
Theoretical	39.02	5.73	22.75
Found	39.66	5.34	23.16

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

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Catalog No.: 0289 Batch No.: 11 EC Number: 220-430-4

TOCRIS a biotechne brand

Product Information

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Print Date: Jan 18th 2022

Batch No.: 11

Product Name: Muscimol

CAS Number: 2763-96-4

IUPAC Name: 5-Aminomethyl-3-hydroxyisoxazole

Description:

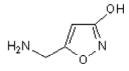
Muscimol is a potent $GABA_A$ receptor agonist and partial $GABA_A$ - ρ receptor agonist. Inhibits memory retention and attenuates airway constriction in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: $C_4H_6N_2O_2$.¹/₂ H_2O Batch Molecular Weight: 123.11 Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

When purchsed as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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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:

Gleason *et al* (2009) The GABA_A agonist muscimol attenuates induced airway constriction in guinea pigs *in vivo*. J.Appl.Physiol. **106** 1257. PMID: 19213928.

Jafari-Sabet and Jannat-Dastjerdi (2009) Muscimol state-dependent memory: involvement of dorsal hippocampal µ-opioid receptors. Behav.Brain Res. *202* 5. PMID: 19447274.

Johnstone (1996) GABA_C receptors: relatively simple transmitter-gated ion channels? TiPS 17 319. PMID: 8885697.

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