1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_4\text{H}_6\text{N}_2\text{O}_2\cdot 0.4\text{H}_2\text{O}$
Batch Molecular Weight: 121.31
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 39.6 5.65 23.09
Found 39.72 5.59 23.1
**Product Name:** Muscimol  
**Catalog No.:** 0289  
**Batch No.:** 10  
**EC Number:** 220-430-4

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

**Description:**  
Potent GABAA receptor agonist and partial GABAA-ρ receptor agonist. Inhibits memory retention and attenuates airway constriction in vivo.

**Physical and Chemical Properties:**  
**Batch Molecular Formula:** CHNO.0.4HO  
**Batch Molecular Weight:** 121.31  
**Physical Appearance:** White solid  
**Minimum Purity:** >98%  
**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**  
water to 100 mM  
When purchased 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.

**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:**


