



CERTIFICATE OF ANALYSIS

PRODUCT: **Muscimol, Hydrobromide**
(5-Aminomethyl-3-hydroxyisoazole, HBr)
C₄H₆N₂O₂ · HBr, M.W. 195.0, CAS#[18174-72-6],
RTECS: NY3345000

PRODUCT NUMBER: M-1056

LOT NUMBER: A8311

APPEARANCE: Off-white solid

PURITY (HPLC): ≥98%

SOLUBILITY: H₂O or methanol

ELEMENTAL ANALYSIS:	Calculated	Actual
	C: 39.31%	C: 39.60%
	H: 5.69%	H: 5.73%
	N: 22.92%	N: 22.93%
		(calculated as . 0.45 H ₂ O (6.6%))

OTHER DATA: A potent GABA_A receptor agonist. Reported to completely abolish ³H-GABA binding to GABA_A receptor (k_i = 105nM). Has been shown to increase basal glutamate release in neurons (EC₅₀ = 99μM), intracellular calcium, and membrane potential in a dose-dependant manner. In addition, it has been shown to enhance pulsatile gonadotropin-releasing

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hormone (GnRH) release ($EC_{50} = 470\text{nM}$) from cultured GT1-7 neurons.

STORAGE:

Store at $+4^{\circ}\text{C}$. Packaged under inert gas. Hygroscopic! PROTECT FROM LIGHT! Following reconstitution, aliquot and freeze (-20°C). Product is stable for 2 years as supplied. Stock solutions are stable for up to 3 months at -20°C .

CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified:

A handwritten signature in black ink, appearing to be 'JK'.