N-ethyl-4-Methoxyamphetamine (hydrochloride)

Item No. 17139

CAS Registry No.: 93963-24-7
Formal Name: N-ethyl-4-methoxy-a-methyl-benzenethanamine, monohydrochloride
Synonyms: EMA, PMEA
MF: C_{12}H_{19}NO • HCl
FW: 229.7
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: \( \lambda_{\text{max}} = 226, 277 \text{ nm} \)

Laboratory Procedures

For long term storage, we suggest that N-ethyl-4-methoxyamphetamine (EMA) (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

EMA (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the EMA (hydrochloride) in the solvent of choice. EMA (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of EMA (hydrochloride) in these solvents is approximately 30 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of EMA (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of EMA (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

N-ethyl-4-Methoxyamphetamine (EMA) is an analog of 4-MA (Item No. 12041). The addition of an N-ethyl substituent decreases analgesic potency.\(^1\) Other physiological and toxicological properties of this compound are not known. This product is intended for forensic and research applications.

Reference


Related Products

For a list of related products please visit: www.caymanchem.com/catalog/17139

**WARNING:** This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

**SAFETY DATA**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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