2,3-Dimethylethcathinone (hydrochloride)

Item No. 11227

Formal Name: 1-(2,3-dimethylphenyl)-2-(ethylamino)propan-1-one, monohydrochloride

Synonym: 2,3-DMEC

MF: C_{13}H_{19}NO • HCl

FW: 241.8

Purity: ≥98%

Stability: ≥2 years at -20°C

Supplied as: A crystalline solid

UV/Vis: δ_{max}^\text{abs} 252, 293 nm

Laboratory Procedures

For long term storage, we suggest that 2,3-dimethylethcathinone (hydrochloride) (2,3-DMEC (hydrochloride)) be stored as supplied at -20°C. It should be stable for at least two years.

2,3-DMEC (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolveing the 2,3-DMEC (hydrochloride) in the solvent of choice. 2,3-DMEC (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 2,3-DMEC (hydrochloride) in these solvents is approximately 5, 2.5, and 1 mg/ml, respectively.

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 2,3-DMEC (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 2,3-DMEC (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Substituted cathinones are psychoactive compounds commonly used as recreational drugs. 1,2 Ethcathinone (Item No. 11241) is a substituted cathinone that producesamphetamine-like stimulus effects in rats trained to discriminate amphetamine from vehicle. 3 It has been identified as a component of capsules or tablets. 2,4 2,3-DMEC is a disubstituted analog of ethcathinone. Its physiological and toxicological properties have not been investigated. This product is intended for forensic and research purposes.

References


Related Products

For a list of related products please visit: www.caymanchem.com/catalog/11227

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 to our email to your institution.

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

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