Product Information

(±)-MDA (hydrochloride) (exempt preparation)
Item No. 15687

CAS Registry No.: 6292-91-7
Formal Name: α-methyl-1,3-benzodioxole-5-ethanamine, monohydrochloride
Synonyms: 3,4-MDA, 3,4-Methylenedioxymethamphetamine, NSC 9978, NSC 27106
MF: C15H13NO2 • HCl
FW: 215.7
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A solution in acetonitrile
UV/Vis: λmax: 237, 287 nm

Laboratory Procedures
For long term storage, we suggest that (±)-MDA (hydrochloride) (exempt preparation) be stored as supplied at -20°C. It should be stable for at least two years.

(±)-MDA (hydrochloride) (exempt preparation) is supplied as a solution in acetonitrile. To change the solvent, simply evaporate the acetonitrile under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of (±)-MDA (hydrochloride) (exempt preparation) in ethanol is approximately 16 mg/ml and 10 mg/ml in DMSO and DMF.

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. If an organic solvent-free solution of (±)-MDA (hydrochloride) (exempt preparation) is needed, it can be prepared by evaporating the acetonitrile and directly dissolving the neat oil in aqueous buffers. The solubility of (±)-MDA (hydrochloride) (exempt preparation) in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

(±)-MDA is a psychedelic and entactogenic drug of the phenethylamine and amphetamine chemical classes. It acts as a serotonergic 5-HT2A receptor agonist and releases monoamines by interacting with monoamine plasmalemmal transporters.1,3 R(-)-MDA is more a potent psychoactive agent than its S(+)-enantiomer.3 Despite being scheduled as a controlled substance in the US since 1970, tablets sold as “Ecstasy” often contain (±)-MDA instead of 3,4-methylenedioxymethamphetamine.2 This product is intended for research and forensic applications.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/15687