N-hydroxy MDA (hydrochloride)

Item No. 13958

CAS Registry No.: 74341-83-6
Formal Name: N-hydroxy-α-methyl-1,3-benzodioxole-5-ethanamine, monohydrochloride
Synonyms: MDOH, N-hydroxy-3,4-
Methylenedioxyamphetamine
MF: C₁₀H₁₃NO₃ • HCl
FW: 231.7
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λ<sub>max</sub> 236, 287 nm

Laboratory Procedures

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

N-hydroxy MDA (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the N-hydroxy MDA (hydrochloride) in the solvent of choice. N-hydroxy MDA (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of N-hydroxy MDA (hydrochloride) in ethanol is approximately 16 mg/ml and approximately 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. Organic solvent-free aqueous solutions of N-hydroxy MDA (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of N-hydroxy MDA (hydrochloride) in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

3,4-Methylenedioxyamphetamine (MDA) is a psychedelic and entactogenic drug that is scheduled as a controlled substance in the United States. N-hydroxy MDA is an analog of MDA (Item No. 11554, hydrochloride form) which inhibits reuptake of noradrenaline (IC₅₀ = 87.8 μM) more effectively than serotonin (IC₅₀ = 215 μM). Like MDA, N-hydroxy MDA is regulated in the United States. This product is intended for forensic and research applications.

References


Related Products

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