Product Information

4'-methyl-α-Pyrrolidinopropiophenone (hydrochloride)
Item No. 10446

CAS Registry No.: 1313393-58-6
Formal Name: 2-(pyrrolidin-1-yl)-1-(p-tolyl)propan-1-one, monohydrochloride
Synonyms: 4'-methyl-α-PPP, 4'-methyl PPP
MF: C14H19NO • HCl
FW: 253.8
Purity: ≥97%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: \( \lambda_{\text{max}} \) 202, 261 nm

Laboratory Procedures

For long term storage, we suggest that 4'-methyl-α-pyrrolidinopropiophenone (4'-methyl-α-PPP) (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

4'-methyl-α-PPP (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the 4'-methyl-α-PPP (hydrochloride) in the solvent of choice. 4'-methyl-α-PPP (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 4'-methyl-α-PPP (hydrochloride) in these solvents is approximately 20, 10, and 3 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 4'-methyl-α-PPP (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 4'-methyl-α-PPP (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

PPPs are a family of compounds that feature a pyrrolidinyl group affixed to the narcotic cathinone. Many have been identified as components of designer drugs.1 4'-methyl-α-PPP (hydrochloride) shares structural features with the stimulant α-PPP and has been detected in bath salts and other formulations.1,2 The metabolism of 4'-methyl-α-PPP has been characterized.3,4 This product is intended to be used for forensic applications.

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10446

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

S A F E T Y  D A T A
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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Cayman makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

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