Product Information

(+)-3,4-Methylenedioxy Pyrovalerone (hydrochloride)
Item No. 14524

Formal Name: 1-(benzo[d][1,3]dioxol-5-yl)-2-(pyrrolidin-1-yl)pentan-1-one, monohydrochloride
Synonym: (+)-3,4-MDPV
MF: C_{16}H_{21}NO_{3} \cdot HCl
FW: 311.8
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λ_{max} = 236, 283, 321 nm

Laboratory Procedures
For long term storage, we suggest that (+)-3,4-methylenedioxy pyrovalerone ((+)-3,4-MDPV) (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

(+)-3,4-MDPV (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the (+)-3,4-MDPV (hydrochloride) in the solvent of choice. (+)-3,4-MDPV (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of (+)-3,4-MDPV (hydrochloride) in these solvents is approximately 14, 5, 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 (+)-3,4-MDPV (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of (+)-3,4-MDPV (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-MDPV (Item No. 10624) is an analog of pyrovalerone (Item No. 10817) which includes the 3,4-methylenedioxy moiety found on 3,4-methylenedioxymethamphetamine, a DEA Schedule I controlled substance. This synthetic cathinone has been reported by the DEA to be abused as a central nervous system stimulant.1,2 It is an addictive stimulant that has distinct effects at different doses.3-5 (+)-3,4-MDPV is an enantiomerically pure isomer of 3,4-MDPV. Its properties, compared to the (-)-3,4-MDPV (Item No. 14525) stereoisomer, have not been evaluated. This product is intended for research and forensic applications.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/14524

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 to your institution.

WARRANTY AND LIMITATION OF REMEDY
Cayman Chemical Company 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.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees. Buyer's exclusive remedy and Cayman's sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman's option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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

Copyright Cayman Chemical Company, 08/13/2014