3,4-Methylenedioxy Pyrovalerone metabolite 2 (hydrochloride)
Item No. 12004

Formal Name: 1-(3,4-dihydroxyphenyl)-2-(pyrrolidin-1-yl)pentan-1-one, monohydrochloride
Synonyms: 3,4-Dihydroxy pyrovalerone, 3,4-MDPV metabolite 2, 3,4-hydroxy-α-Pyrrolidinopentiophenone

MF: C_{15}H_{21}NO_3 • HCl
FW: 299.8
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λ_{max} 209, 239, 289, 323 nm

Laboratory Procedures
For long term storage, we suggest that 3,4-methylenedioxy pyrovalerone metabolite 2 (3,4-MDPV metabolite 2) (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

3,4-MDPV metabolite 2 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the 3,4-MDPV metabolite 2 (hydrochloride) in the solvent of choice. 3,4-MDPV metabolite 2 (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 metabolite 2 (hydrochloride) in ethanol is approximately 10 mg/ml and approximately 30 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 3,4-MDPV metabolite 2 (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 3,4-MDPV metabolite 2 (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

3,4-MDPV (Item No. 10684) is an analog of pyrovalerone (Item No. 10817) that includes the 3,4-methylenedioxy moiety found on 3,4-methylenedioxymethamphetamine (Item No. 13971), a DEA Schedule I controlled substance. 3,4-MDPV is commonly abused as a recreational drug. 1-3

This compound can be further modified, e.g., by glucuronidation, before secretion in urine. 4,5 This product is intended for forensic and research purposes.

References

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