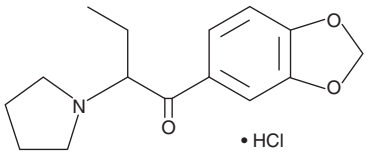
PRODUCT INFORMATION

3,4-Methylenedioxy-α-Pyrrolidinobutiophenone (hydrochloride)

Item No. 10437

CAS Registry No.: 24622-60-4
Formal Name: 1-(1,3-benzodioxol-5-yl)-2-(1-pyrrolidinyl)-1-butanone, monohydrochloride
Synonym: 3,4-MDPBP
MF: $C_{15}H_{19}NO_3$ • HCl
FW: 297.8
Purity: ≥97%
UV/Vis.: λ_{max}: 236, 282, 321 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥5 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

3,4-MDPBP (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the 3,4-MDPBP (hydrochloride) in the solvent of choice, which should be purged with an inert gas. 3,4-MDPBP (hydrochloride) is soluble in organic solvents such as ethanol and DMSO. The solubility of 3,4-MDPBP (hydrochloride) in ethanol is approximately 1 mg/ml and approximately 0.5 mg/ml in DMSO.

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-MDPBP (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 3,4-MDPBP (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Pyrrolidinophenones (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] 3,4-MDPBP (hydrochloride) shares structural features of the stimulants α-PPP (Item No. 10445) and methylenedioxypyrovalerone (Item No. 10684). This product is intended to be used for forensic applications.

Reference

1. Kikura-Hanajiri, R., Uchiyama, N., and Goda, Y. Survey of current trends in the abuse of psychotropic substances and plants in Japan. *Leg. Med. (Tokyo)* **13(3)**, 109-15 (2011).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM