



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

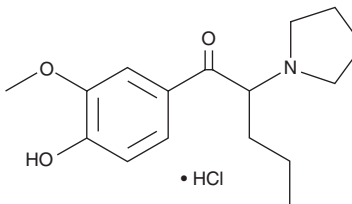
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION

3,4-Methylenedioxy Pyrovalerone metabolite 1 (hydrochloride)

Item No. 10518

CAS Registry No.: 2748590-34-1
Formal Name: 1-(4-hydroxy-3-methoxyphenyl)-2-(pyrrolidin-1-yl)pentan-1-one, monohydrochloride
Synonyms: Demethylenyl-methyl-MDPV, 3,4-MDPV metabolite 1
MF: $C_{16}H_{23}NO_3 \cdot HCl$
FW: 313.8
Purity: $\geq 95\%$
UV/Vis.: λ_{max} : 237, 290, 319 nm
Supplied as: A crystalline solid
Storage: $-20^{\circ}C$
Stability: ≥ 5 years



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

Laboratory Procedures

3,4-MDPV metabolite 1 is supplied as a crystalline solid. A stock solution may be made by dissolving the 3,4-MDPV metabolite 1 in the solvent of choice, which should be purged with an inert gas. 3,4-MDPV metabolite 1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 3,4-MDPV metabolite 1 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 1 can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 3,4-MDPV metabolite 1 in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

3,4-Methylenedioxy pyrovalerone (3,4-MDPV, Item No. 10624) 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 3,4-MDPV metabolite 1 is produced during phase I metabolism of 3,4-MDPV.^{4,5} This compound can be further modified, e.g., by glucuronidation, before secretion in urine.⁴ This product is intended for forensic and research purposes.

References

1. Brandt, S.D., Sumnall, H.R., Measham, F., *et al. Drug Test. Anal.* **2**(8), 377-382 (2010).
2. Kikura-Hanajiri, R., Uchiyama, N., and Goda, Y. *Leg. Med. (Tokyo)* **13**(3), 109-15 (2011).
3. Prosser, J.M. and Nelson, L.S. *J. Med. Toxicol.* **8**(1), 33-42 (2012).
4. Strano-Rossi, S., Cadwallader, A.B., de la Torre, X., *et al. Rapid Commun. Mass Spectrom.* **24**, 2706-2714 (2010).
5. Meyer, M.R., Du, P., Schuster, F., *et al. J. Mass Spectrom.* **45**(12), 1426-1442 (2010).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 07/13/2023

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