

Product Data Sheet

Product Name: 4-Methylethcathinone metabolite (hydrochloride) ((±)-Pseudoephedrine stereochemistry)
Cat. No.: GC45350

Chemical Properties

Cas. No.

SMILES C[C@@H](NCC)[C@H](O)C1=CC=C(C)C=C1.Cl

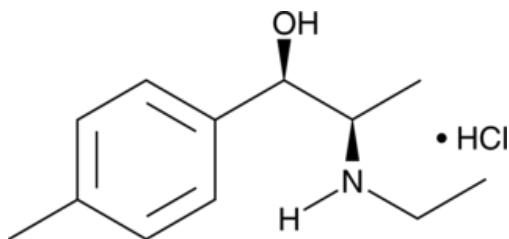
Formula C12H19NO.HCl M.Wt 229.8

Solubility DMF: 50mg/ml, DMSO: 50mg/ml, Ethanol: 30mg/ml, PBS (pH 7.2): 10mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

4-methylethcathinone (4-MEC) (hydrochloride) is a cathinone derivative identified in several designer, recreational drugs that are sold as "legal high" replacements for controlled stimulants such as methamphetamine and 3,4-methylenedioxymethamphetamine.^{1,2,3} This metabolite of 4-MEC features conversion of the β-keto group to β-hydroxy and is an enantiomeric mixture of the R,R and S,S orientations at carbons one and two, as in pseudoephedrine. The physiological and toxicological properties of this compound have not been elucidated. This product is intended for research and forensic applications.

References

- Schifano, F., Albanese, A., Fergus, S., et al. Mephedrone (4-methylmethcathinone; 'meow meow'):

Caution: Product has not been fully validated for medical applications. For research use only.

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- Chemical, pharmacological and clinical issues. Psychopharmacol.(Berl). 214(3), 593-602 (2011).
2. Santali, E.Y., Cadogan, A.K., Nic Daeid, N., et al. Synthesis, full chemical characterisation and development of validated methods for the quantification of ($\pm$)-4'-methylmethcathinone (mephedrone): A new "legal high". Journal of Pharmaceutical & Biomedical Analysis 56, 246-255 (2011).
3. Gibbons, S., and Zloh, M. An analysis of the 'legal high' mephedrone. Bioorg. Med. Chem. Lett. 20(14), 4135-4139 (2010).

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