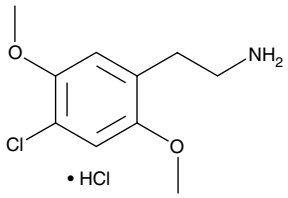
Product Information

2C-C (hydrochloride) (exempt preparation)

Item No. 15716

CAS Registry No.: 88441-15-0
Formal Name: 4-chloro-2,5-dimethoxy-benzeneethanamine, monohydrochloride
Synonym: 2,5-Dimethoxy-4-chlorophenethylamine
MF: $C_{10}H_{14}ClNO_2 \bullet HCl$
FW: 252.1
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A solution in methanol
UV/Vis.: λ_{max}: 204, 225, 295 nm



Laboratory Procedures

For long term storage, we suggest that 2C-C (hydrochloride) (exempt preparation) be stored as supplied at -20°C. It should be stable for at least two years.

2C-C (hydrochloride) (exempt preparation) is supplied as a solution in methanol. To change the solvent, simply evaporate the methanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 2C-C (hydrochloride) (exempt preparation) in these solvents is approximately 0.5, 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. If an organic solvent-free solution of 2C-C (hydrochloride) (exempt preparation) is needed, it can be prepared by evaporating the methanol and directly dissolving the neat oil in aqueous buffers. The solubility of 2C-C (hydrochloride) (exempt preparation) in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

A series of 2,5-dimethoxyphenethylamines, collectively referred to as 2Cs, have psychoactive effects.[1,2] The most effective 2C compounds are substituted at the four position of the aromatic ring. Many are scheduled as illegal substances. [3,4] 2C-C is described formally as 2,5-dimethoxy-4-chlorophenethylamine. A known hallucinogen, this compound stimulates monoamine receptor activity and inhibits the re-uptake of serotonin and norepinephrine in rat brain synaptosomes (IC_{50}s = 31 and 63 µM, respectively).[4,5] LC-MS/MS screening methods for this designer drug have been developed.[6] This product is intended for forensic and research purposes.

References

1. Bruno, R., Matthews, A.J., Dunn, M., *et al. Drug Alcohol Depend.* **124(1-2)**, 19-25 (2012).
2. Moya, P.R., Berg, K.A., Gutiérrez-Hernandez, M.A., *et al. J. Pharmacol. Exp. Ther.* **321**, 1054-1061 (2007).
3. Meyer, M.R. and Maurer, H.H. *Curr. Drug Metab.* **11**, 468-482 (2010).
4. Nagai, F., Nonaka, R., and Satoh Hisashi Kamimura, K. *Eur. J. Pharmacol.* **559(2-3)**, 132-137 (2007).
5. Nonaka, R., Nagai, F., Ogata, A., *et al. Biol. Pharm. Bull.* **30(12)**, 2328-33 (2007).
6. Wohlfarth, A., Weinmann, W., and Dresen, S. *Anal. Bioanal. Chem.* **396**, 2403-2414 (2010).

Related Products

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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.

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