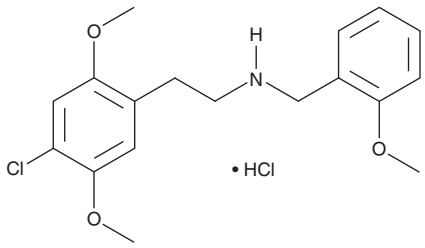
PRODUCT INFORMATION

25C-NBOMe (hydrochloride) (exempt preparation)

Item No. 15724

CAS Registry No.: 1539266-19-7
Formal Name: 2-(4-chloro-2,5-dimethoxyphenyl)-N-(2-methoxybenzyl)ethanamine, monohydrochloride
Synonym: 2C-C-NBOMe
MF: $C_{18}H_{22}ClNO_3$ • HCl
FW: 372.3
Purity: ≥98%
UV/Vis.: λ_{max}: 205, 295 nm
Supplied as: A solution in methanol
Storage: -20°C
Stability: ≥3 years



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

Description

2C-C is a 2,5-dimethoxyphenethylamine with a chlorine atom at the four position of the aromatic ring. A known hallucinogen, this compound stimulates monoamine receptor activity and inhibits the re-uptake of serotonin (Item No. 14332) and norepinephrine in rat brain synaptosomes (IC_{50}s = 31 and 63 µM, respectively).[1,2] 25C-NBOMe is a derivative of 2C-C having an N-(2-methoxybenzyl) addition at the amine. This addition increases the affinity and selectivity for the 5-HT_{2A} receptor over other serotonin receptors.[3] Radiolabeled 25C-NBOMe has been used for positron emission tomography imaging of the 5-HT_{2A} receptor in porcine brain.[4] This product is intended for forensic and research uses.

References

1. Nonaka, R., Nagai, F., Ogata, A., *et al. In vitro* screening of psychoactive drugs by [^{35}S]GTPγs binding in rat brain membranes. *Biol. Pharm. Bull.* **30(12)**, 2328-33 (2007).
2. Nagai, F., Nonaka, R., and Satoh Hisashi Kamimura, K. The effects of non-medically used psychoactive drugs on monoamine neurotransmission in rat brain. *Eur. J. Pharmacol.* **559(2-3)**, 132-137 (2007).
3. Braden, M.R., Parrish, J.C., Naylor, J.C., *et al*. Molecular interaction of serotonin 5-HT_{2A} receptor residues Phe339(6.51) and Phe340(6.52) with superpotent N-benzyl phenethylamine agonists. *Mol. Pharm.* **70(6)**, 1956-1965 (2006).
4. Ettrup, A., Hansen, M., Santini, M.A., *et al*. Radiosynthesis and *in vivo* evaluation of a series of substituted 11C-phenethylamines as 5-HT_{2A} agonist PET tracers. *Eur. J. Nucl. Med. Mol. Imaging* **38**, 681-693 (2011).

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