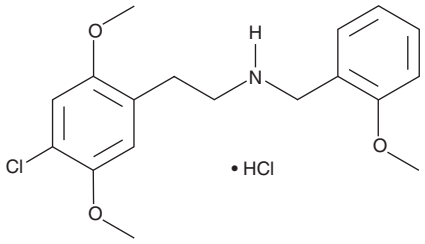
PRODUCT INFORMATION

25C-NBOMe (hydrochloride)

Item No. 9001096

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 crystalline solid
Storage:	-20°C
Stability:	≥5 years



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

Description

2C-NBOMe (Item No. 9001096) is an analytical reference standard that is structurally categorized as a phenethylamine. 25C-NBOMe is a derivative of 2C-C having an N-(2-methoxybenzyl) addition at the amine. 2C-C is a known hallucinogen that stimulates monoamine receptor activity and inhibits the re-uptake of serotonin and norepinephrine in rat brain synaptosomes (IC_{50} = 31 and 63 µM, respectively).[1,2] The N-(2-methoxybenzyl) addition to 2C-NBOMe 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 ^{11}C-phenethylamines as 5-HT_{2A} agonist PET tracers. *Eur. J. Nucl. Med. Mol. Imaging* **38(4)**, 681-693 (2011).

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