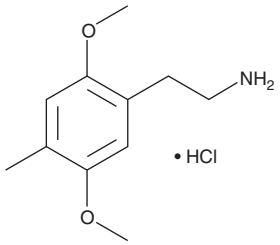
PRODUCT INFORMATION

2C-D (hydrochloride)

Item No. 11888

CAS Registry No.:	25505-65-1
Formal Name:	2,5-dimethoxy-4-methyl-benzeneethanamine, monohydrochloride
Synonym:	2,5-Dimethoxy-4-methylphenethylamine
MF:	$C_{11}H_{17}NO_2$ • HCl
FW:	231.7
Purity:	≥98%
UV/Vis.:	λ_{max}: 227, 292 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

A series of 2,5-dimethoxy phenethylamines, collectively referred to as 2Cs, have psychoactive effects.[1,2] The most effective 2C compounds are substituted at the 4 position of the aromatic ring. Many are scheduled as illegal substances.[3,4] 2C-D is described formally as 2,5-dimethoxy-4-methylphenethylamine. It is a weak agonist of serotonin (5-HT) receptors (pEC_{50} = 5.09 and 4.73 for $5\text{-}HT_{2A}$ and $5\text{-}HT_{2C}$, respectively).[2] Its metabolism in rats has been described.[3] LC-MS/MS screening methods for this designer drug have been developed.[5] This product is intended for forensic and research purposes.

References

1. Bruno, R., Matthews, A.J., Dunn, M., *et al.* Emerging psychoactive substance use among regular ecstasy users in Australia. *Drug Alcohol Depend.* **124(1-2)**, 19-25 (2012).
2. Moya, P.R., Berg, K.A., Gutiérrez-Hernandez, M.A., *et al.* Functional selectivity of hallucinogenic phenethylamine and phenylisopropylamine derivatives at human 5-hydroxytryptamine $(5\text{-}HT)_{2A}$ and $5\text{-}HT_{2C}$ receptors. *J. Pharmacol. Exp. Ther.* **321(3)**, 1054-1061 (2007).
3. Meyer, M.R. and Maurer, H.H. Metabolism of designer drugs of abuse: An updated review. *Curr. Drug Metab.* **11(5)**, 468-482 (2010).
4. 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).
5. Wohlfarth, A., Weinmann, W., and Dresen, S. LC-MS/MS screening method for designer amphetamines, tryptamines, and piperazines in serum. *Anal. Bioanal. Chem.* **396(7)**, 2403-2414 (2010).

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