2,5-DMMA
Item No. 15131

CAS Registry No.: 54687-43-3
Formal Name: 2,5-dimethoxy-N,α-dimethyl-benzeneethanamine
Synonym: 2,5-Dimethoxymethamphetamine
MF: C_{12}H_{19}NO_{2}
FW: 209.3
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in acetonitrile
UV/Vis: λ_{max}: 291 nm

Laboratory Procedures
For long term storage, we suggest that 2,5-DMMA be stored as supplied at -20°C. It should be stable for at least one year.

2,5-DMMA is supplied as a crystalline solid. A stock solution may be made by dissolving the 2,5-DMMA in the solvent of choice. 2,5-DMMA is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 2,5-DMMA in these solvents is approximately 14, 12, and 33 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. Organic solvent-free aqueous solutions of 2,5-DMMA can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 2,5-DMMA in PBS, pH 7.2, is approximately 3.3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

2,5-DMMA is a designer drug that combines the 2,5 disubstitution pattern of 2,5-dimethoxyphenethylamines with the backbone of methamphetamine. While the physiological and toxicological properties of this compound are poorly studied, the absence of an additional third substitution at either the three or four position on similar phenethylamines and amphetamines typically reduces effects on monoamine action.\(^1,2\) This product is intended for forensic and research applications.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/15131