Phenylpiperazine (hydrochloride)
Item No. 11203

CAS Registry No.: 4004-95-9
Formal Name: 1-phenyl-piperazine, dihydrochloride
MF: C_{10}H_{14}N_{2} • 2HCl
FW: 235.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λ_{max}: 243 nm

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

Phenylpiperazine (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the phenylpiperazine (hydrochloride) in the solvent of choice. Phenylpiperazine (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of phenylpiperazine (hydrochloride) in ethanol, DMSO, and DMF is approximately 2, 30, and 5 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 phenylpiperazine (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of phenylpiperazine (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Phenylpiperazine is the base compound from which a broad series of bioactive products are derived. Many are entactogenic drugs which induce central serotonin release.1-3 Substituted phenylpiperazines, such as 1-(3-chlorophenyl) piperazine, have been identified as designer drugs or drugs of abuse.4,5 This product is intended for forensic applications.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/11203