Desmethylene Paroxetine (hydrochloride)

**Item No. 15908**

**CAS Registry No.:** 1394861-12-1  
**Formal Name:** 4-[(3S,4R)-4-(4-fluorophenyl)-3-piperidinyl]methoxy]-1,2-benzenediol, monohydrochloride  
**MF:** C_{18}H_{20}FNO_{3} • HCl  
**FW:** 353.8  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid

**Laboratory Procedures**

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

Desmethylene paroxetine (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the desmethylene paroxetine (hydrochloride) in the solvent of choice. Desmethylene paroxetine (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of desmethylene paroxetine (hydrochloride) in ethanol and DMSO is approximately 20 mg/ml and approximately 30 mg/ml in DMF.

Desmethylene paroxetine (hydrochloride) is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Paroxetine (Item No. 14998) is a potent, selective serotonin reuptake inhibitor (K_i = 0.72 nM) that has been used in cases of depression and anxiety disorder.\(^1\) Desmethylene paroxetine is a major urinary metabolite of paroxetine.\(^2\)\(^3\) This compound may be used in urine drug testing applications involving paroxetine toxicology or forensic analysis.

**Related Products**

For a list of related products please visit: www.caymanchem.com/catalog/15908

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**References**