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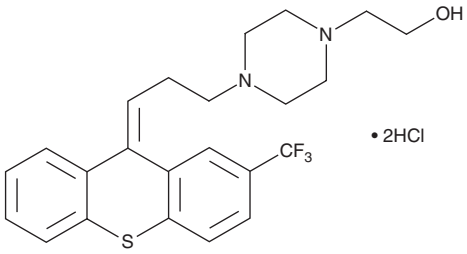
PRODUCT INFORMATION

cis-Flupenthixol (hydrochloride)

Item No. 17634

CAS Registry No.: 51529-01-2
Formal Name: 4-[3-[(3Z)-2-(trifluoromethyl)-9H-thioxanthen-9-ylidene]propyl]-1-piperazineethanol, dihydrochloride
Synonym: *cis*-Flupentixol
MF: $C_{23}H_{25}F_3N_2OS \bullet 2HCl$
FW: 507.4
Purity: ≥95%
UV/Vis.: λ_{max}: 230 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

cis-Flupenthixol (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the *cis*-flupenthixol (hydrochloride) in the solvent of choice. *cis*-Flupenthixol (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of *cis*-flupenthixol (hydrochloride) in these solvents is approximately 1, 25, and 15 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 *cis*-flupenthixol (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of *cis*-flupenthixol (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

cis-Flupenthixol is a typical antipsychotic, a dopamine D_2 receptor antagonist (K_i = 0.38 nM), and an inverse agonist at the serotonin (5-HT) receptor subtype 5-HT_{2A} (K_i = 7 nM).[1] *In vivo*, *cis*-flupenthixol (0.5 mg/kg, i.p.) reduces cocaine-induced locomotor activity and prevents development of conditioned place preferences for the immediate effects of intravenously administered cocaine without affecting development of conditioned place aversions in rats.[2] *cis*-Flupenthixol also inhibits acid sphingomyelinase activity by 81.8% when used at a concentration of 10 mM.[3]

References

1. Seeman, P. Atypical antipsychotics: Mechanism of action. *Can. J. Psychiatry* **47(1)**, 27-38 (2002).
2. Wenzel, J.M., Su, Z.I., Shelton, K., *et al.* The dopamine antagonist *cis*-flupenthixol blocks the expression of the conditioned positive but not the negative effects of cocaine in rats. *Pharmacol. Biochem. Behav.* **114-115**, 90-96 (2013).
3. Kornhuber, J., Muehlbacher, M., Trapp, S., *et al.* Identification of novel functional inhibitors of acid sphingomyelinase. *PLoS One* **6(8)**, 1-13 (2011).

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