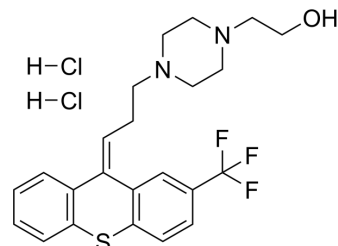


cis-(Z)-Flupentixol dihydrochloride

Cat. No.:	HY-15856
CAS No.:	51529-01-2
Molecular Formula:	C ₂₃ H ₂₇ Cl ₂ F ₃ N ₂ OS
Molecular Weight:	507.44
Target:	Dopamine Receptor; 5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (123.17 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.9707 mL	9.8534 mL	19.7068 mL
	5 mM		0.3941 mL	1.9707 mL	3.9414 mL
	10 mM		0.1971 mL	0.9853 mL	1.9707 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

cis-(Z)-Flupentixol dihydrochloride is a potent and selective DA D₁/D₂ receptor antagonist, with K_i values of 0.38 nM and 7 nM for D₂ receptor and 5-HT_{2A}, respectively^{[1][2]}.

IC₅₀ & Target

D ₂ Receptor 0.38 nM (K _i)	5-HT _{2A} Receptor 7 nM (K _i)
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In Vivo

cis-(Z)-Flupentixol (0.25, or 0.5 mg/kg, i.p.) pretreatment dose-dependently reduces cocaine-induced activity^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Rats ^[1] .
Dosage:	0.125, 0.25, or 0.5 mg/kg.
Administration:	IP.
Result:	Reduced cocaine-induced activity.

REFERENCES

- [1]. Jennifer M Wenzel, 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.* 2013 Dec;114-115:90-6.
- [2]. Philip Seeman, et al. Atypical antipsychotics: mechanism of action. *Can J Psychiatry.* 2002 Feb;47(1):27-38.
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Caution: Product has not been fully validated for medical applications. For research use only.

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