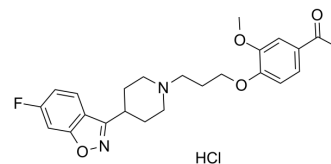


Iloperidone hydrochloride

Cat. No.:	HY-17410A
CAS No.:	1299470-39-5
Molecular Formula:	C ₂₄ H ₂₈ ClFN ₂ O ₄
Molecular Weight:	462.94
Target:	5-HT Receptor; Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Iloperidone hydrochloride (HP 873 hydrochloride) is a D ₂ /5-HT ₂ receptor antagonist. Iloperidone hydrochloride is an atypical antipsychotic for the schizophrenia symptoms ^{[1][2]} .			
IC₅₀ & Target	Rat D ₂ Receptor 54 nM (K _i)	Rat 5-HT ₂ Receptor 3.1 nM (K _i)	Rat D ₁ Receptor 546 nM (K _i)	Rat 5-HT _{1A} Receptor 168 nM (K _i)
	Rat 5-HT ₆ Receptor 42.7 nM (K _i)	Rat 5-HT ₇ Receptor 21.6 nM (K _i)	Human D ₁ Receptor 216 nM (K _i)	Human D ₃ Receptor 7.1 nM (K _i)
	Human D ₄ Receptor 25 nM (K _i)	Human D ₅ Receptor 319 nM (K _i)	Human 5-HT _{2A} Receptor 5.6 nM (K _i)	Human 5-HT _{2C} Receptor 42.8 nM (K _i)
In Vitro	Iloperidone hydrochloride displays higher affinity for the dopamine D ₃ receptor (K _i =7.1 nM) than for the dopamine D ₄ receptor (K _i =25 nM). Iloperidone displays high affinity for the 5-HT ₆ and 5-HT ₇ receptors (K _i =42.7 and 21.6 nM, respectively), and is found to have higher affinity for the 5-HT _{2A} (K _i =5.6 nM) than for the 5-HT _{2C} receptor (K _i =42.8 nM) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	Iloperidone hydrochloride is eliminated slowly, with a mean t _{1/2} of 13.5 to 14.0 hours. Coadministration with food did not significantly affect AUC, t _{max} , or C _{max} . These results indicate that the rate of iloperidone's absorption is decreased, but the overall bioavailability is unchanged, when the drug is taken with food. Orthostatic hypotension, dizziness, and somnolence were the most commonly reported adverse events ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

CUSTOMER VALIDATION

- Neuroreport. 2021 Nov 2;32(16):1299-1306.

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REFERENCES

[1]. Kongsamut, S., et al., Iloperidone binding to human and rat dopamine and 5-HT receptors. *Eur J Pharmacol*, 1996. 317(2-3): p. 417-23.

[2]. Sainati, S.M., et al., Safety, tolerability, and effect of food on the pharmacokinetics of iloperidone (HP 873), a potential atypical antipsychotic. *J Clin Pharmacol*, 1995. 35(7): p. 713-20.

[3]. Albers, L.J., A. Musenga, and M.A. Raggi, Iloperidone: a new benzisoxazole atypical antipsychotic drug. Is it novel enough to impact the crowded atypical antipsychotic market? *Expert Opin Investig Drugs*, 2008. 17(1): p. 61-75.

Caution: Product has not been fully validated for medical applications. For research use only.

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