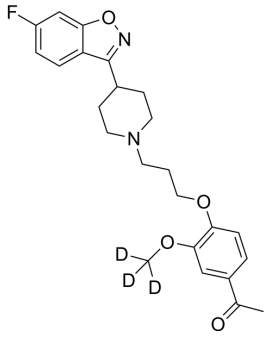
Iloperidone-d_3

Cat. No.:	HY-17410S
CAS No.:	1071167-49-1
Molecular Formula:	$C_{24}H_{24}D_3FN_2O_4$
Molecular Weight:	429.5
Target:	Dopamine Receptor; 5-HT Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.14 mg/mL (2.65 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1.14 mg/mL (2.65 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	Iloperidone-d_3 is the deuterium labeled Iloperidone. Iloperidone (HP 873) is a D2/5-HT2 receptor antagonist. Iloperidone is an atypical antipsychotic for the schizophrenia symptoms[1][2].
IC_{50} & Target	D_3 Receptor
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. 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.

[3]. 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.

[4]. 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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