Fluoroclebopride

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Cat. No.:	HY-102089				
CAS No.:	154540-49-5				
Molecular Formula:	C ₂₀ H ₂₃ ClFN ₃ O ₂				
Molecular Weight:	391.87				
Target:	Dopamine Receptor				
Pathway:	GPCR/G Protein; Neuronal Signaling				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C 6 months			
		-20°C	1 month		

SOLVENT & SOLUBILITY

In Vitro	DMSO:≥125 mg/mL * "≥" means soluble,	DMSO : ≥ 125 mg/mL (318.98 mM) * "≥" means soluble, but saturation unknown.					
		Mass Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.5519 mL	12.7593 mL	25.5187 mL		
	Stock Solutions	5 mM	0.5104 mL	2.5519 mL	5.1037 mL		
		10 mM	0.2552 mL	1.2759 mL	2.5519 mL		
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIVITY

Description Fluoroclebopride binds reversibly to dopamine receptors. ¹⁸F labeled fluoroclebopride has been used as a probe for studying D2/D3 receptor availability via PET in various monkey models^{[1][2]}.

REFERENCES

[1]. Nader MA, Czoty PW. PET imaging of dopamine D2 receptors in monkey models of cocaine abuse: genetic predisposition versus environmental modulation. Am J Psychiatry. 2005 Aug;162(8):1473-82.

[2]. Czoty PW, et al. Effects of repeated treatment with the dopamine D2/D3 receptor partial agonist aripiprazole on striatal D2/D3 receptor availability in monkeys. Psychopharmacology (Berl). 2013 Sep 29:10.1007/s00213-013-3274-7.

Product Data Sheet

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

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