Dihydrexidine

MedChemExpress

Cat. No.:	HY-101299A	
CAS No.:	123039-93-0	
Molecular Formula:	C ₁₇ H ₁₇ NO ₂	
Molecular Weight:	267.32	
Target:	Dopamine Receptor	HO
Pathway:	GPCR/G Protein; Neuronal Signaling	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	HO

NH

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Product Data Sheet

Description	Dibudroviding (DAD 010)) is a high potent coloctive and full officery D1 like depending recenter (D1/D5) accrict with an IC	
Description	of 10 nM for D1 receptor. Dihydrexidine exhibits potent antiparkinsonian activity ^{[1][2][3][4]} . Dihydrexidine can stimulate YAP phosphorylation ^[5] .		
IC ₅₀ & Target	IC50: 10 nM (D1 dopamine receptor), D5 dopamine receptor, 660 nM (D1 dopamine receptor) ^[1]		
In Vitro	Dihydrexidine (DAR-0100) strongly increased YAP phosphorylation in U2OS cells ^[5] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Dihydrexidine has poor oral bioavailability and a relatively short half-life of 1 to 2 $h^{[3]}$.		
	Dihydrexidine (3 mg/kg; i.p.) produces prominent dopamine D1 receptor agonist effects in vivo ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Adult male Sprague–Dawley rats (275-300 g) ^[4]	
	Dosage:	Adult male Sprague–Dawley rats (275-300 g) ^[4]	
	Administration:	Intraperitoneal injection	
	Result:	Produces prominent dopamine D1 receptor agonist effects in vivo	

REFERENCES

[1]. Lovenberg TW, et al. Dihydrexidine, a novel selective high potency full dopamine D-1 receptor agonist. Eur J Pharmacol. 1989 Jul 4;166(1):111-3.

[2]. Mottola DM, et al. Dihydrexidine, a novel full efficacy D1 dopamine receptor agonist. J Pharmacol Exp Ther. 1992 Jul;262(1):383-93.

[3]. Salmi P,et al. Dihydrexidine--the first full dopamine D1 receptor agonist. CNS Drug Rev. 2004 Fall;10(3):230-42.

[4]. Gleason, S. D., et al. Effects of dopamine D1 receptor agonists in rats trained to discriminate dihydrexidine. Psychopharmacology, 2006;186(1), 25–31.

[5]. Yu FX, et al. Regulation of the Hippo-YAP pathway by G-protein-coupled receptor signaling. Cell. 2012;150(4):780-791.

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

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