Laropiprant sodium

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	Prostaglandin Receptor GPCR/G Protein	O=S=O N O
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	F

Product Data Sheet

BIOLOGICAL ACTIVITY									
Description	Laropiprant sodium is a potent and selective DP receptor antagonist with K _i values of 0.57 nM and 2.95 nM for DP receptor and TP Receptor, respectively ^{[1][2][3]} .								
IC ₅₀ & Target	DP 0.57 nM (Ki)	TP 2.9	95 nM (Ki)						
In Vitro	Laropiprant sodium (0.01-1000 μM; 10 mins; HEK293 cells) is an Inverse Agonist of DP1 cAMP Signaling and reduces DP1 cAMP signaling below basal levels ^[1] . Laropiprant sodium (1 μM; 0-24 h; HEK293 cells) is a pharmacochaperone in promoting DP1 cell surface expression ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	Pharmacokinetic Route PO PO Route IV	c Analysis in Male S Dose (mg/kg) 1 5 Dose (mg/kg) 5	p.o. and i.v.; male S Sprague-Dawley rat AUC _{0-∞} (μM·hr) 22.7 96.0 AUC _{0-∞} (μM·hr) 52.6	s ^[3] Cl _p (mL/min/kg) 1.9 2.1 C _{max} (μM) 15.6	V _{dss} (L/kg) 0.7 0.9 T _{max} (hr) 1.2	T _{1/2} (hr) 7.4 7.6 F(%) /	orofiles ^[3] .		
	MCE has not ind	ependently confirm	ned the accuracy of	f these methods. Th	ney are for referen	nce only.			

REFERENCES

[1]. Labrecque P, et, al. Inverse agonist and pharmacochaperone properties of MK-0524 on the prostanoid DP1 receptor. PLoS One. 2013 Jun 10;8(6):e65767.

[2]. Sturino CF, et, al. Discovery of a potent and selective prostaglandin D2 receptor antagonist, [(3R)-4-(4-chloro-benzyl)-7-fluoro-5-(methylsulfonyl)-1,2,3,4-tetrahydrocyclopenta[b]indol-3-yl]-acetic acid (MK-0524). J Med Chem. 2007 Feb 22;50(4):794-806.

[3]. Chang SW, et, al. The pharmacokinetics and disposition of MK-0524, a Prosglandin D2 Receptor 1 antagonist, in rats, dogs and monkeys. Xenobiotica. 2007 May;37(5):514-33.

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

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