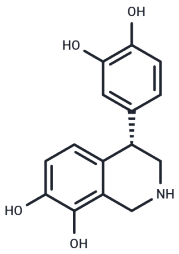
Data Sheet (Cat.No.T29213)

TargetMol

Zelandopam free base

Chemical Properties



CAS No. : 139233-53-7

Formula: C15H15NO4

Molecular Weight: 273.28

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Zelandopam is a dopamine D1 agonist. Zelandopam is a potent stimulant of pancreatic exocrine secretion by acting on DA D1 receptors of the pancreas in dogs. Intravenous administration of Zelandopam produces renal vasodilating and diuretic/natriuretic effects by stimulation of dopamine D1 receptors, and demonstrate that Zelandopam can inhibit angiotensin II-, renal nerve stimulation- and PAF-induced renal dysfunction.
Targets(IC50)	Others,Dopamine Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6593 mL	18.2963 mL	36.5925 mL
5 mM	0.7319 mL	3.6593 mL	7.3185 mL
10 mM	0.3659 mL	1.8296 mL	3.6593 mL
50 mM	0.0732 mL	0.3659 mL	0.7319 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yatsu T, Aoki M, Tanaka A. Effect of zelandopam, a dopamine D1-like receptor agonist, in puromycin aminonucleoside nephrosis rats. Eur J Pharmacol. 2005 Mar 7;510(1-2):121-6. PubMed PMID: 15740732.
Yatsu T, Aoki M, Inagaki O. Preventive effect of zelandopam, a dopamine D1 receptor agonist, on cisplatin-induced acute renal failure in rats. Eur J Pharmacol. 2003 Feb 14;461(2-3):191-5. PubMed PMID: 12586214.
Yasunari K, Kohno M, Kano H, Hanehira T, Minami M, Yoshikawa J. Anti-atherosclerotic action of vascular D1 receptors. Clin Exp Pharmacol Physiol Suppl. 1999 Apr;26:S36-40. Review. PubMed PMID: 10386252.
Yatsu T, Arai Y, Takizawa K, Kasai-Nakagawa C, Takanashi M, Uchida W, Inagaki O, Tanaka A, Takenaka T. Effect of YM435, a dopamine DA1 receptor agonist, in a canine model of ischemic acute renal failure. Gen Pharmacol. 1998 Nov;31(5):803-7. PubMed PMID: 9809482.

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