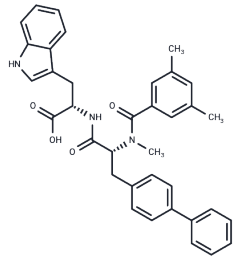
Data Sheet (Cat.No.T15596)

TargetMol

IRL 2500

Chemical Properties



CAS No. : 169545-27-1

Formula: C36H35N3O4

Molecular Weight: 573.68

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	IRL 2500 is an antagonist of Endothelin receptor with IC50s of 1.3 and 94 nM for Endothelin A receptor and Endothelin B receptor.
Targets(IC50)	Endothelin Receptor
In vivo	In the anesthetized rat, IRL 2500 (10 mg/kg; i.v.) decreases the IRL 1620-mediated enhances renal vascular resistance. IRL 2500 suppresses the initial transient reduction in mean arterial pressure induced by IRL 1620[1]. IRL 2500 (10 mg/kg; i.v.) pre-treatment reduces the initial vasodepressor response to endothelin-1 and IRL 1620 without altering the secondary and sustained pressor response[2].

Solubility Information

Solubility	DMSO: 93.6 mg/mL (163.2 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7431 mL	8.7157 mL	17.4313 mL
5 mM	0.3486 mL	1.7431 mL	3.4863 mL
10 mM	0.1743 mL	0.8716 mL	1.7431 mL
50 mM	0.0349 mL	0.1743 mL	0.3486 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.

Reference

Balwierczak JL, et al. Characterization of a potent and selective endothelin-B receptor antagonist, IRL 2500.J Cardiovasc Pharmacol. 1995;26 Suppl 3:S393-6.

Webb RL, et al. Effects of the ETB-selective antagonist IRL 2500 in conscious spontaneously hypertensive and Wistar-Kyoto rats.J Cardiovasc Pharmacol. 1995;26 Suppl 3:S389-92.

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