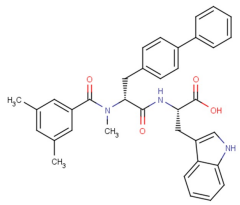
Data Sheet (Cat.No.T15596)

TargetMol
A DRUG SCREENING EXPERT

IRL 2500

Chemical Properties



CAS No.:	169545-27-1
Formula:	C36H35N3O4
Molecular Weight:	573.68
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	IRL 2500 is an effective antagonist of the Endothelin receptor. IRL 2500 suppresses ETB receptor-mediated blood pressure increase and renal vascular resistance in rats in vivo. IRL 2500 displays (IC50:1.3 and 94 nM for ETB and ETA receptors, respectively).
Targets(IC_{50})	ETB: 1.3 nM ETA: 94 nM
In vivo	IRL 2500 also decreases the IRL 1620-mediated enhances renal vascular resistance (RVR) in the anesthetized rat [1]. IRL 2500 (i.v.;10 mg/kg) suppresses the initial transient reduction in mean arterial pressure (MAP) induced by the ETB-selective agonist IRL 1620 in rats. IRL 2500 (i.v.;10 mg/kg) pre-treatment obviously reduces the initial vasodepressor response to endothelin-1 (ET-1) and IRL 1620, however, it does not alter the secondary and sustained pressor response to these agonists [2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.743 mL	8.716 mL	17.431 mL
5 mM	0.349 mL	1.743 mL	3.486 mL
10 mM	0.174 mL	0.872 mL	1.743 mL
50 mM	0.035 mL	0.174 mL	0.349 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

2. 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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