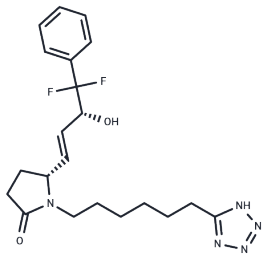
Data Sheet (Cat.No.T15690)

TargetMol

L-902688

Chemical Properties



CAS No. : 634193-54-7

Formula: C21H27F2N5O2

Molecular Weight: 419.47

Storage: Store at low temperature
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	L-902688 is an orally active EP4 receptor agonist (Ki: 0.38 nM; EC50: 0.6 nM). L-902688 displays >4,000-fold selective for EP4 over other EP and prostanoid receptors.
Targets(IC50)	Prostaglandin Receptor
In vitro	L-902688 (1 μM; 24 hours; HUVE cells) treatment, decreases TGF-β-induced Twist and α-smooth muscle actin (α-SMA) expression.
In vivo	In the monocrotaline (MCT)-induced PAH rat model, L-902688 (0.25-1 μg/kg/day; intraperitoneal injection; daily; for 3 weeks; adult male Sprague-Dawley rats) treatment decreases right ventricle fibrosis [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.384 mL	11.9198 mL	23.8396 mL
5 mM	0.4768 mL	2.384 mL	4.7679 mL
10 mM	0.2384 mL	1.192 mL	2.384 mL
50 mM	0.0477 mL	0.2384 mL	0.4768 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

Lai YJ, et al. EP4 Agonist L-902,688 Suppresses EndMT and Attenuates Right Ventricular Cardiac Fibrosis in Experimental Pulmonary Arterial Hypertension. Int J Mol Sci. 2018 Mar 3;19(3). pii: E727.
Young, R.N., Billot, X., Han, Y., et al. Discovery and synthesis of a potent, selective and orally bioavailable EP4 receptor agonist. Heterocycles. 2004, 64, 437-445.

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