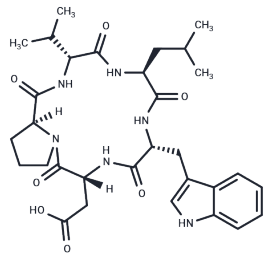
Data Sheet (Cat.No.T6792)

TargetMol

BQ-123

Chemical Properties



CAS No. : 136553-81-6

Formula: C31H42N6O7

Molecular Weight: 610.7

Appearance: no data available

Storage: keep away from moisture,keep away from direct sunlight,store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	BQ-123 is a selective endothelin A receptor (ETA) antagonist with IC50 of 7.3 nM. Phase 2.
Targets(IC50)	Endothelin Receptor
In vitro	In porcine aortic vascular smooth muscle cells, BQ-123 selectively inhibits ETA-mediated contraction. [1] In rat vascular smooth muscle cells, BQ-123 inhibits endothelin-1-induced phosphoinositide breakdown and DNA synthesis. [2]
In vivo	In rats, BQ-123 (1 mg/kg, i.v.) ameliorates myocardial ischemic-reperfusion injury. [3] In rats with pentylenetetrazole (PTZ)-induced tonic-clonic seizures, BQ-123 (3 mg/kg, i.v.) potently impedes the formation and spread of seizure. [4] In pregnant C57BL/6 mice, BQ-123 (6.7 mg/kg, i.p.) prevents LPS-induced preterm birth in mice via the induction of uterine and placental IL-10. [5]

Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 12 mg/mL (19.65 mM),Sonication is recommended. DMSO: 93 mg/mL (152.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6375 mL	8.1873 mL	16.3747 mL
5 mM	0.3275 mL	1.6375 mL	3.2749 mL
10 mM	0.1637 mL	0.8187 mL	1.6375 mL
50 mM	0.0327 mL	0.1637 mL	0.3275 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

Ihara M, et al. J Cardiovasc Pharmacol. 1992, 12, S11-14.
Eguchi S, et al. FEBS Lett. 1992, 302(3), 243-246.
Goyal SN, et al. Biomed Pharmacother. 2010, 64(9), 639-646.
Erdogan H, et al. Hum Exp Toxicol. 2014, 33(10), 12008-12016.
Olgun NS, et al. Toxicol Appl Pharmacol. 2015, 282(3), 275-284.