

BQ-123

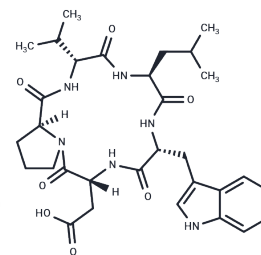
Chemical Properties

CAS No. : 136553-81-6

Formula: C₃₁H₄₂N₆O₇

Molecular Weight: 610.7

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
Actual storage temperature shall be subject to the COA.



Biological Description

Description	BQ-123 is a selective endothelin A receptor (ETA) antagonist with IC ₅₀ of 7.3 nM. Phase 2.
Targets(IC ₅₀)	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	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 12 mg/mL (19.65 mM), Sonication is recommended. DMSO: 250 mg/mL (409.37 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (8.19 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

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

- 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.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481