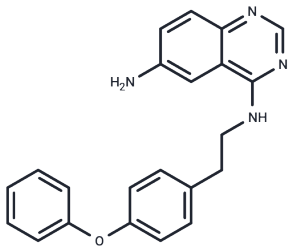
Data Sheet (Cat.No.T6204)

TargetMol

QNZ

Chemical Properties



CAS No. : 545380-34-5

Formula: C22H20N4O

Molecular Weight: 356.42

Storage: 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	QNZ (EVP4593) (EVP4593) is an effective inhibitor of NF-κB activation and TNF-α production. The IC50 of QNZ for NF-κB and TNF-α is11 nM and 7 nM, respectively.
Targets(IC50)	NF-κB,TNF
In vitro	Intraperitoneal injection of EVP4593 (1 mg/kg) in rats suppressed carrageenan-induced paw edema in a dose-dependent manner.
In vivo	In murine spleen cells stimulated by lipopolysaccharide, EVP4593 (IC50= nM) inhibits the production of TNF-α. In rat neutrophils, EVP4593 (10 nM) suppresses the upregulation of CSE expression induced by lipopolysaccharide. EVP4593 (40 nM) entirely inhibits the increase in the number and length of axons during laminin treatment in Schwann cell adhesion. Additionally, in IB4-negative neurons, EVP4593 (100 nM) blocks the induction effect of GRO/KC on K currents.

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 250 mg/mL (701.42 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: 1 mg/mL (2.81 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8057 mL	14.0284 mL	28.0568 mL
5 mM	0.5611 mL	2.8057 mL	5.6114 mL
10 mM	0.2806 mL	1.4028 mL	2.8057 mL
50 mM	0.0561 mL	0.2806 mL	0.5611 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

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