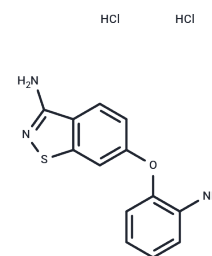


M62812

Chemical Properties

CAS No. : 613263-00-6
 Formula: C₁₃H₁₃Cl₂N₃O₅
 Molecular Weight: 330.23
 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	TLR4 inhibitor. Inhibits LPS-induced NF-κB activation in HEK293 cells (IC ₅₀ = 2.4 μg/mL). Also inhibits LPS-induced cytokine production and procoagulant effects in PBMCs and HUVECs. Prolongs survival in a mouse septic shock model.
Targets(IC ₅₀)	TLR
In vitro	M62812 suppressed LPS-induced upregulation of inflammatory cytokines, adhesion molecules and procoagulant activity in human vascular endothelial cells and peripheral mononuclear cells. The half maximal inhibitory concentrations in these assays ranged from 1 to 3 μg/ml [1]. Single intravenous administration of M62812 (10-20 mg/kg) protected mice from lethality and reduced inflammatory and coagulatory parameters in a murine d-galactosamine-sensitized endotoxin shock model [1]. M62812 (20 mg/kg) also prevented mice from lethality in a murine cecal ligation and puncture model [1].

Solubility Information

Solubility	DMSO: 10 mg/mL (30.28 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 (3.03 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	3.0282 mL	15.141 mL	30.2819 mL
5 mM	0.6056 mL	3.0282 mL	6.0564 mL
10 mM	0.3028 mL	1.5141 mL	3.0282 mL
50 mM	0.0606 mL	0.3028 mL	0.6056 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

Masaki Nakamura, et al. Toll-like receptor 4 signal transduction inhibitor, M62812, suppresses endothelial cell and leukocyte activation and prevents lethal septic shock in mice. Eur.J.Pharmacol. 569 237 PMID:17588563

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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