

M62812 free base

Chemical Properties

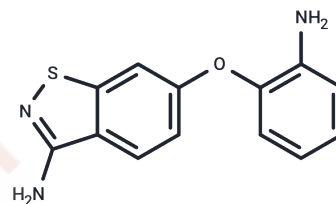
CAS No. : 613262-61-6

Formula: C₁₃H₁₁N₃O₂S

Molecular Weight: 257.31

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	M62812 (free base), a Toll-like receptor 4 (TLR4) signal transduction inhibitor, suppresses activation of endothelial cells and leukocytes and prevents lethal septic shock in mice. It is utilized in sepsis research [1].
Targets(IC50)	Others,TLR
In vitro	M62812 (0-10 µg/ml) suppresses the LPS-induced upregulation of inflammatory cytokines, adhesion molecules, and procoagulant activity in human endothelial cells and peripheral mononuclear cells [1].
In vivo	M62812, administered intravenously at dosages of 10-20 mg/kg as a single injection, protected mice from lethality in a d-galactosamine-sensitized endotoxin shock model, also reducing inflammatory and coagulation parameters [1]. Moreover, a daily dose of 20 mg/kg of M62812 prevented mortality in mice subjected to a cecal ligation and puncture model [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8864 mL	19.4318 mL	38.8636 mL
5 mM	0.7773 mL	3.8864 mL	7.7727 mL
10 mM	0.3886 mL	1.9432 mL	3.8864 mL
50 mM	0.0777 mL	0.3886 mL	0.7773 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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