M62812 free base

Cat. No.: HY-103639

CAS No.: 613262-61-6

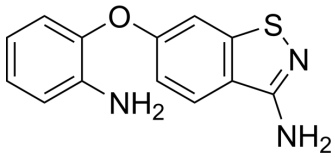
Molecular Formula: $C_{13}H_{11}N_3OS$

Molecular Weight: 257.31

Target: Toll-like Receptor (TLR)

Pathway: Immunology/Inflammation

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

M62812 (free base) is a toll-like receptor 4 (TLR4) signal transduction inhibitor. M62812 can suppress endothelial cell and leukocyte activation and prevents lethal septic shock in mice. M62812 can be used for the research of sepsis[1].

In Vitro

M62812 (0-10 μg/ml) suppresses LPS-induced upregulation of inflammatory cytokines, adhesion molecules and procoagulant activity in human vascular endothelial cells and peripheral mononuclear cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

M62812 (i.v.; 10-20 mg/kg; single) protects mice from lethality and reduced inflammatory and coagulatory parameters in a murine d-galactosamine-sensitized endotoxin shock model[1].

M62812 (20 mg/kg/day) prevents mice from lethality in a murine cecal ligation and puncture model[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	D-galactosamine-sensitized endotoxin shock mouse model[1]
Dosage:	10-20 mg/kg
Administration:	Single intravenous administration
Result:	Suppressed LPS-induced leukocyte and endothelial cell activation in vivo. Prolonged survival in a d-galactosamine-sensitized endotoxin shock mouse model.

Animal Model:	A cecal ligation and puncture mouse model[1]
Dosage:	20 mg/kg
Administration:	Intravenous administration; Everyday
Result:	Reduced mortality in a murine cecal ligation and puncture model.

REFERENCES

[1]. Nakamura M, 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. 2007;569(3):237-243.

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