

IAXO-102

## Chemical Properties

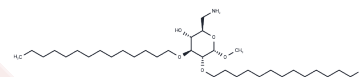
CAS No. : 1115270-63-7

Formula: C<sub>35</sub>H<sub>71</sub>N<sub>5</sub>O<sub>5</sub>

Molecular Weight: 585.94

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	IAXO-102 is a TLR4 antagonist that negatively regulates TLR4 signaling by inhibiting MAPK and p65 NF-κB phosphorylation, as well as the expression of TLR4-dependent proinflammatory proteins. It also prevents the development of experimental abdominal aortic aneurysm.
Targets(IC50)	TLR
In vitro	IAXO-102 (10 μM, for 17 hours) suppresses LPS induced pro-inflammatory proteins MCP-1 and IL-8 production in HUVEC. IAXO-102 (1-10 μM, for 2 hours) inhibits MAPK and p65 NF-κB phosphorylation in human umbilical vein endothelial (HUVEC) cells.
In vivo	IAXO-102 (3 mg/kg/day, s.c. for 28 days) significantly retards Angiotensin II-induced increase in aortic diameter in mice.

## Solubility Information

Solubility	Ethanol: 45 mg/mL (76.8 mM), Sonication is recommended. DMSO: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.7067 mL	8.5333 mL	17.0666 mL
5 mM	0.3413 mL	1.7067 mL	3.4133 mL
10 mM	0.1707 mL	0.8533 mL	1.7067 mL
50 mM	0.0341 mL	0.1707 mL	0.3413 mL

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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

Huggins C, et al. A novel small molecule TLR4 antagonist (IAXO-102) negatively regulates non-hematopoietic toll like receptor 4 signalling and inhibits aortic aneurysms development. *Atherosclerosis*. 2015 Oct;242(2):563-70.

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