

RS 09

Chemical Properties

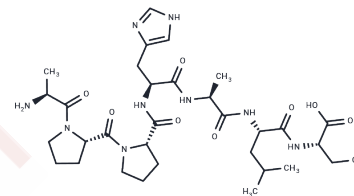
CAS No. : 1449566-36-2

Formula: C₃₁H₄₉N₉O₉

Molecular Weight: 691.78

Storage: Keep away from moisture, Store at low temperature
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 agonist. Promotes NF-κB nuclear translocation and induces inflammatory cytokine secretion in RAW264.7 macrophages in vitro. Acts as an adjuvant in vivo; enhances X-15 specific antibody serum concentrations, when administered with X-15-KLH in mice.
Targets(IC50)	NF-κB, TLR

Solubility Information

Solubility H₂O: 2 mg/mL (2.89 mM), Sonication is recommended.
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4455 mL	7.2277 mL	14.4555 mL
5 mM	0.2891 mL	1.4455 mL	2.8911 mL
10 mM	0.1446 mL	0.7228 mL	1.4455 mL
50 mM	0.0289 mL	0.1446 mL	0.2891 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

Li et al (2016) Intranasal vaccination against HIV-1 with adenoviral vector-based nanocomplex using synthetic TLR-4 agonist peptide as adjuvant. Mol.Pharm. 13 885 PMID:

Shanmugam et al (2012) Synthetic Toll like receptor-4 (TLR-4) agonist peptides as a novel class of adjuvants. PLoS One 7 e30839 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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