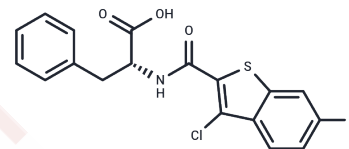


TLR3-IN-1

Chemical Properties

CAS No. : 1279713-77-7
 Formula: C₁₈H₁₃ClFNO₃S
 Molecular Weight: 377.82
 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	TLR3-IN-1 (CU CPT 4a) is a selective TLR3 inhibitor (IC ₅₀ : 3.44 μM in RAW 264.7 cells). It can inhibit TLR3/dsRNA complex-mediated downstream signaling pathways and inhibit the production of TNF-α and IL-1β in whole cells.
Targets(IC ₅₀)	TLR

Solubility Information

Solubility	DMSO: 250 mg/mL (661.69 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: 2.5 mg/mL (6.62 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	2.6468 mL	13.2338 mL	26.4676 mL
5 mM	0.5294 mL	2.6468 mL	5.2935 mL
10 mM	0.2647 mL	1.3234 mL	2.6468 mL
50 mM	0.0529 mL	0.2647 mL	0.5294 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

Cheng K , Wang X , Yin H . Small-Molecule Inhibitors of the TLR3/dsRNA Complex[J]. Journal of the American Chemical Society, 2011, 133(11):p.3764-3767.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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