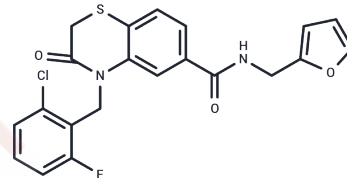


STING agonist-1

Chemical Properties

CAS No. :	702662-50-8
Formula:	C ₂₁ H ₁₆ ClFN ₂ O ₃ S
Molecular Weight:	430.88
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	STING agonist-1 (G10) is a human-specific agent that elicits antiviral activity against emerging Alphaviruses.
Targets(IC50)	STING,Virus Protease

Solubility Information

Solubility	DMSO: 250 mg/mL (580.21 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: 10 mg/mL (23.21 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (23.21 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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	2.3208 mL	11.6042 mL	23.2083 mL
5 mM	0.4642 mL	2.3208 mL	4.6417 mL
10 mM	0.2321 mL	1.1604 mL	2.3208 mL
50 mM	0.0464 mL	0.2321 mL	0.4642 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

Sali TM, et al. Characterization of a Novel Human-Specific STING Agonist that Elicits Antiviral Activity Against Emerging Alphaviruses. PLoS Pathog. 2015 Dec 8;11(12):e1005324.

Wang Y, He X, Xue M, et al. Germacrone protects renal tubular cells against ferroptotic death and ROS release by re-activating mitophagy in diabetic nephropathy. Free Radical Research. 2023 (just-accepted): 1-36.

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