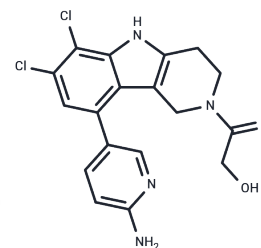


G150

Chemical Properties

CAS No. : 2369751-30-2
 Formula: C₁₈H₁₆Cl₂N₄O₂
 Molecular Weight: 391.25
 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	G150 inhibited interferon expression triggered by DSDNA with IC ₅₀ of 10.2 nM. G150 is an effective and highly selective inhibitor of human cyclic GMP-AMP synthase (H-CGAS).
Targets(IC ₅₀)	cGAS, DNA
In vitro	G150 showed dose-dependent inhibitory activity in THP1 cells with cellular IC ₅₀ of 1.96 μM[1].

Solubility Information

Solubility	DMSO: 83.33 mg/mL (212.98 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: 8.33 mg/mL (21.29 mM), Solution. 10% DMSO+90% Saline: < 8.33 mg/mL (21.29 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	2.5559 mL	12.7796 mL	25.5591 mL
5 mM	0.5112 mL	2.5559 mL	5.1118 mL
10 mM	0.2556 mL	1.278 mL	2.5559 mL
50 mM	0.0511 mL	0.2556 mL	0.5112 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

Lama L, et al. Development of human cGAS-specific small-molecule inhibitors for repression of dsDNA-triggered interferon expression. Nat Commun. 2019 May 21;10(1):2261.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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