

ChX710

Chemical Properties

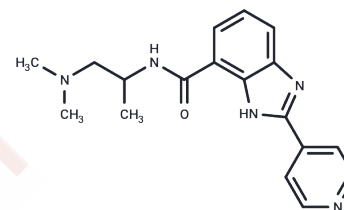
CAS No. : 2438721-44-7

Formula: C₁₈H₂₁N₅O

Molecular Weight: 323.39

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	ChX710 activates the type I interferon response to cytosolic DNA by priming specific Interferon-Stimulated Genes (ISGs), inducing the ISRE promoter sequence, and facilitating the phosphorylation of Interferon Regulatory Factor (IRF) 3.
Targets(IC50)	STING
In vitro	The treatment of ChX710 efficiently prime the cellular response to DNA transfection via STING as assessed by strong synergistic effects on IFN- β expression at both transcriptional and protein levels.

Solubility Information

Solubility	DMSO: 60 mg/mL (185.53 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: 1 mg/mL (3.09 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	3.0922 mL	15.4612 mL	30.9224 mL
5 mM	0.6184 mL	3.0922 mL	6.1845 mL
10 mM	0.3092 mL	1.5461 mL	3.0922 mL
50 mM	0.0618 mL	0.3092 mL	0.6184 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

Khier S, et al. Identification of a small molecule that primes the type I interferon response to cytosolic DNA. Sci Rep. 2017 May 31;7(1):2561.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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