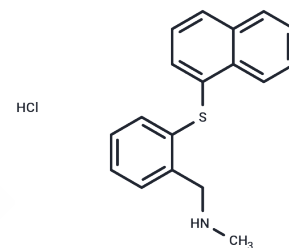


IFN alpha-IFNAR-IN-1 hydrochloride

Chemical Properties

CAS No. :	2070014-98-9
Formula:	C ₁₈ H ₁₈ ClNS
Molecular Weight:	315.86
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	IFN alpha-IFNAR-IN-1 hydrochloride is an inhibitor of the interaction between IFN- α and IFNAR, effectively inhibiting MVA-induced IFN- α responses by BM-pDCs with an IC ₅₀ of 2-8 μ M.
Targets(IC ₅₀)	IFNAR
In vitro	IFN alpha-IFNAR-IN-1 hydrochloride inhibited the IFN- α responses that were elicited after treatment with CpG2216, stimulation with poly(I:C), and infection with VSV-M2, whereas the total IL-12 production was notably less affected under those conditions. IFN alpha-IFNAR-IN-1 hydrochloride specifically inhibits MVA-induced IFN- α responses by BM-pDCs. IFN alpha-IFNAR-IN-1 hydrochloride exerts immunosuppressive activity by the direct interaction with IFN- α [1].

Solubility Information

Solubility	H ₂ O: 16 mg/mL (50.66 mM),Sonication is recommended. DMSO: 165 mg/mL (522.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (31.66 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (10.45 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	3.166 mL	15.8298 mL	31.6596 mL
5 mM	0.6332 mL	3.166 mL	6.3319 mL
10 mM	0.3166 mL	1.583 mL	3.166 mL
50 mM	0.0633 mL	0.3166 mL	0.6332 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

Geppert T, et al. Immunosuppressive small molecule discovered by structure-based virtual screening for inhibitors of protein-protein interactions. *Angew Chem Int Ed Engl.* 2012 Jan 2;51(1):258-61.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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