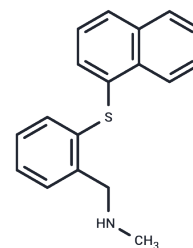


## IFN alpha-IFNAR-IN-1

## Chemical Properties

CAS No. :	844882-93-5
Formula:	C <sub>18</sub> H <sub>17</sub> NS
Molecular Weight:	279.4
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 is a nonpeptidic, low-molecular-weight inhibitor that disrupts the interaction between IFN- $\alpha$ and IFNAR, inhibiting MVA-induced IFN- $\alpha$ responses by BM-pDCs (IC <sub>50</sub> : 2-8 $\mu$ M).
Targets(IC <sub>50</sub> )	Others,IFNAR
In vitro	IFN alpha-IFNAR-IN-1 inhibited the IFN- $\alpha$ 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 interaction inhibitor IFN alpha-IFNAR-IN-1 specifically inhibits MVA-induced IFN- $\alpha$ responses by BM-pDCs. IFN alpha-IFNAR-IN-1 exerts immunosuppressive activity by the direct interaction with IFN- $\alpha$ [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5791 mL	17.8955 mL	35.791 mL
5 mM	0.7158 mL	3.5791 mL	7.1582 mL
10 mM	0.3579 mL	1.7895 mL	3.5791 mL
50 mM	0.0716 mL	0.3579 mL	0.7158 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.

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