
Product Data Sheet

Product Name: IFN alpha-IFNAR-IN-1 hydrochloride (IFN-alpha and IFNAR interaction inhibitor)

Cat. No.: GC34307

Chemical Properties

Cas. No.

SMILES CNCC1=CC=CC=C1SC2=C(C=CC=C3)C3=CC=C2.[H]Cl

Formula $C_{18}H_{18}ClNS$ M.Wt 315.86

Solubility DMSO : 125 mg/mL (395.74 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

IFN alpha-IFNAR-IN-1 hydrochloride is a nonpeptidic, low-molecular-weight inhibitor of the interaction between IFN- α and IFNAR; inhibit MVA-induced IFN- α responses by BM-pDCs (IC₅₀=2-8 μ M). IC₅₀ value: Target: IFN alpha-IFNAR interaction inhibitor IFN alpha-IFNAR-IN-1 specifically inhibits MVA-induced IFN- α responses by BM-pDCs. IFN alpha-IFNAR-IN-1 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 exerts immunosuppressive activity by the direct interaction with IFN- α [1].

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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