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Product Data Sheet

Inhibitors • Screening Libraries • Proteins

IFN alpha-IFNAR-IN-1 hydrochloride

| Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: | HY-12836A 2070014-98-9 C ₁₈ H ₁₈ ClNS 315.86 IFNAR Immunology/Inflammation | HN S |
|---|--|---------|
| Storage: | 4°C, sealed storage, away from moisture * In solvent : -80°C, 2 years; -20°C, 1 year (sealed storage, away from moisture) | H–CI |

SOLVENT & SOLUBILITY

| In Vitro | 0, (| DMSO : 100 mg/mL (316.60 mM; Need ultrasonic) H ₂ O : 16.67 mg/mL (52.78 mM; Need ultrasonic) | | | | | |
|----------|------------------------------|--|--------------------|------------|------------|--|--|
| | | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg | | |
| | Preparing Stock Solutions | 1 mM | 3.1660 mL | 15.8298 mL | 31.6596 mL | | |
| | | 5 mM | 0.6332 mL | 3.1660 mL | 6.3319 mL | | |
| | | 10 mM | 0.3166 mL | 1.5830 mL | 3.1660 mL | | |
| | Please refer to the so | lubility information to select the app | propriate solvent. | | | | |
| In Vivo | | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.59 mM); Clear solution | | | | | |
| | | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.59 mM); Clear solution | | | | | |
| | | Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.59 mM); Clear solution | | | | | |

| BIOLOGICAL ACTIVITY | | | |
|---------------------|---|--|--|
| Description | IFN alpha-IFNAR-IN-1 hydrochloride is a nonpeptidic, low-molecular-weight inhibitor of the interaction between IFN-α and IFNAR. IFN alpha-IFNAR-IN-1 hydrochloride inhibits modified Vaccinia virus ankara (MVA)-induced IFN-α responses in murine bone-marrow-derived, Flt3- L-differentiated pDC cultures (BM-pDCs) (IC ₅₀ =2-8 μM) ^[1] . | | |
| In Vitro | IFN alpha-IFNAR-IN-1 (compound 1) (18 μM; 24 h) specifically inhibits MVA-induced IFN-a responses by BMpDCs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | |

CUSTOMER VALIDATION

- Nature. 2022 Sep;609(7928):785-792.
- Arthritis Rheumatol. 2020 Jun;72(6):1003-1012.
- J Med Virol. 2023 Nov 7.
- Adv Healthc Mater. 2023 Jan 30;e2202830.
- Pharmacol Res. 2022 Dec 16;187:106615.

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REFERENCES

[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.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA