

KRN5

Chemical Properties

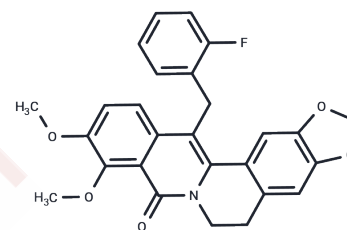
CAS No. : 1800465-47-7

Formula: C₂₇H₂₂FN₂O₅

Molecular Weight: 459.47

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 | KRN5 is an effective inhibitor of NFAT5 with an IC ₅₀ of 750 nM and can be used in studies about chronic arthritis. |
| Targets(IC ₅₀) | Others |
| In vitro | KRN5 (1 μM) inhibits the expressions of NFAT5, IL-6, MCP-1, and GM-CSF in RAW264.7 macrophages stimulated with LPS[1]. |
| In vivo | In DBA/1j mice immunized with bovine type II collagen, KRN5 (15 and 60 mg/kg; oral) dose-dependently mitigates arthritis severity. KRN5 significantly decreases the concentration of serum anti-type II collagen IgG in the sera. KRN5 lowers TNF-α and IL-6 production by LPS-stimulated splenocytes in mice[1]. |

Solubility Information

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|------------|---|
| Solubility | DMSO: 5 mg/mL (10.88 mM), Sonication and heating to 80°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.1764 mL | 10.8821 mL | 21.7642 mL |
| 5 mM | 0.4353 mL | 2.1764 mL | 4.3528 mL |
| 10 mM | 0.2176 mL | 1.0882 mL | 2.1764 mL |
| 50 mM | 0.0435 mL | 0.2176 mL | 0.4353 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

Han EJ, et al. Suppression of NFAT5-mediated Inflammation and Chronic Arthritis by Novel κ B-binding Inhibitors. EBioMedicine. 2017 Apr;18:261-273.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481