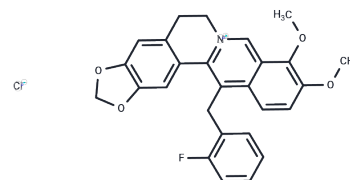


KRN2

Chemical Properties

CAS No. :	248260-75-5
Formula:	C ₂₇ H ₂₃ ClFNO ₄
Molecular Weight:	479.93
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	KRN2 has potential to treat NFAT5-mediated Chronic Arthritis. KRN2 is a selective inhibitor of nuclear factor of activated T cells (NFAT5), with an IC ₅₀ of 100 nM.
Targets(IC ₅₀)	Others
In vitro	KRN2 selectively and dose-dependently inhibits the binding of NF-κB p65 to the Nfat5 promoter 1 and impedes its interaction with the DNA binding sequence located in the upstream site (base pairs -3000 to +1) of Nfat5 exon 1. Moreover, KRN2 effectively suppresses the expression of pro-inflammatory genes such as Nos2 and Il6, while sparing the activation of high-salt-induced NFAT5 and related target gene expressions.
In vivo	KRN2 (3 mg/kg, i.p., daily) effectively suppresses CIA as well as AIA in mice, decreasing the production of pro-inflammatory cytokines and autoantibodies as well as macrophage infiltration. KRN2 (3 mg/kg, i.p., daily for 2 weeks) effectively suppresses AIA in which innate immune cells play a predominant role.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0836 mL	10.4182 mL	20.8364 mL
5 mM	0.4167 mL	2.0836 mL	4.1673 mL
10 mM	0.2084 mL	1.0418 mL	2.0836 mL
50 mM	0.0417 mL	0.2084 mL	0.4167 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.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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