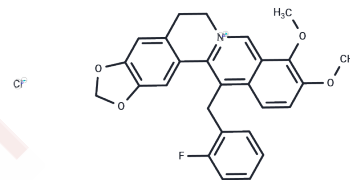


## KRN2

## Chemical Properties

CAS No. :	248260-75-5
Formula:	C <sub>27</sub> H <sub>23</sub> ClFNO <sub>4</sub>
Molecular Weight:	479.93
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	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 <sub>50</sub> of 100 nM.
Targets(IC <sub>50</sub> )	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 and AIA in mice by reducing pro-inflammatory cytokines, autoantibodies, and macrophage infiltration. Additionally, KRN2 (3 mg/kg, i.p., daily for 2 weeks) significantly suppresses AIA, where innate immune cells are predominantly involved.

## 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.

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  $\kappa$ B-binding Inhibitors. EBioMedicine. 2017 Apr;18:261-273.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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