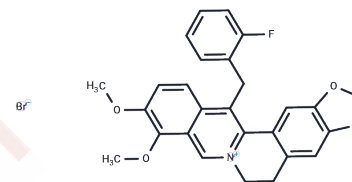


KRN2 bromide

Chemical Properties

CAS No. :	1390654-28-0
Formula:	C ₂₇ H ₂₃ BrFNO ₄
Molecular Weight:	524.38
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 bromide is a potent, selective inhibitor of nuclear factor of activated T cells (NFAT5, IC ₅₀ = 0.1 μM).
Targets(IC ₅₀)	Others
In vitro	KRN2 bromide inhibits the NF-κB p65 binding to Nfat5 promoter 1 in a dose-dependent manner and directly blocks the interaction between NF-κB p65 and its DNA binding sequence in the upstream site (base pairs -3000 to +1) of Nfat5 exon 1. KRN2 bromide selectively suppresses the expression of pro-inflammatory genes, including Nos2 and Il6, without hampering high-salt-induced NFAT5 and its target gene expressions[1].
In vivo	In DBA/1J mice immunized with bovine type II collagen, KRN2 bromide (3 mg/kg, i.p.) effectively suppresses CIA as well as AIA in which innate immune cells play a predominant role, and decreases the production of pro-inflammatory cytokines and autoantibodies as well as macrophage infiltration[1].

Solubility Information

Solubility	DMSO: 8 mg/mL (15.26 mM), Sonication is recommended. H ₂ O: < 0.1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (1.91 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.907 mL	9.5351 mL	19.0701 mL
5 mM	0.3814 mL	1.907 mL	3.814 mL
10 mM	0.1907 mL	0.9535 mL	1.907 mL
50 mM	0.0381 mL	0.1907 mL	0.3814 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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