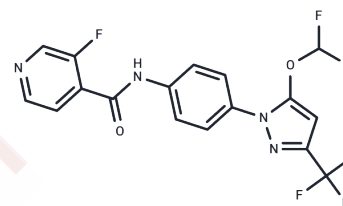


NFAT Transcription Factor Regulator-1

Chemical Properties

CAS No. :	245747-71-1
Formula:	C17H10F6N4O2
Molecular Weight:	416.28
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	NFAT Transcription Factor Regulator-1 is a synthesis inhibitor of IL-2 with an IC50 of 182 nM.
Targets(IC50)	IL Receptor, Interleukin
In vitro	NFAT Transcription Factor Regulator-1 inhibits IL-2 synthesis (IC50 of 182 nM). NFAT Transcription Factor Regulator-1 inhibits human and rat PBMC proliferation with IC50s of 82 and 146 nM, respectively. NFAT Transcription Factor Regulator-1 is able to inhibit IL-4 and IL-5 production in human T-cell lines with similar potency to its effects on IL-2 release.
In vivo	NFAT Transcription Factor Regulator-1 demonstrates an inhibitory potency on T-cell IL-2 production that is approximately 10 times greater than cyclosporine, requiring doses of 3.0 mg/kg and 30 mg/kg, respectively, for comparable effects. In vivo studies in monkeys further reveal the potential of NFAT Transcription Factor Regulator-1 to block T-cell cytokine production effectively, suggesting its viability as a transplantation aid comparable to cyclosporine[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (120.11 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (12.01 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	2.4022 mL	12.0111 mL	24.0223 mL
5 mM	0.4804 mL	2.4022 mL	4.8045 mL
10 mM	0.2402 mL	1.2011 mL	2.4022 mL
50 mM	0.048 mL	0.2402 mL	0.4804 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

Djuric SW, et al. 3,5-Bis(trifluoromethyl)pyrazoles: a novel class of NFAT transcription factor regulator. J Med Chem. 2000 Aug 10;43(16):2975-81.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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