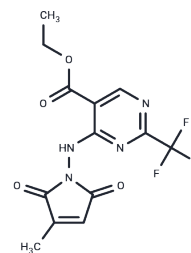


AP-1/NF-κB activation inhibitor 1

Chemical Properties

CAS No. :	188936-12-1
Formula:	C13H11F3N4O4
Molecular Weight:	344.25
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	AP-1/NF-κB activation inhibitor 1 is a potent inhibitor of AP-1 and NF-κB mediated transcriptional activation (IC ₅₀ = 1 μM), without blocking basal transcription driven by the β-actin promoter. It has a similar inhibitory effect on the production of IL-2 and IL-8 levels in stimulated cells [1].
Targets(IC ₅₀)	NF-κB,DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 225 mg/mL (653.59 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 (14.52 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	2.9049 mL	14.5243 mL	29.0487 mL
5 mM	0.581 mL	2.9049 mL	5.8097 mL
10 mM	0.2905 mL	1.4524 mL	2.9049 mL
50 mM	0.0581 mL	0.2905 mL	0.581 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

Palanki MS, et al. Novel inhibitors of AP-1 and NF-kappaB mediated gene expression: structure-activity relationship studies of ethyl 4-[(3-methyl-2,5-dioxo(3-pyrrolinyl)amino]-2-(trifluoromethyl)pyrimidine-5-carboxylate. Bioorg Med Chem Lett. 2000;1

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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