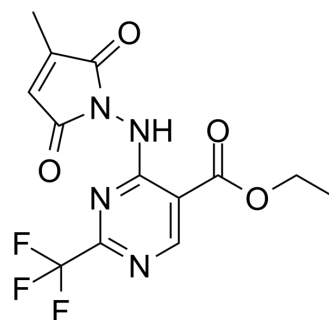


AP-1/NF-κB activation inhibitor 1

Cat. No.:	HY-133987
CAS No.:	188936-12-1
Molecular Formula:	C ₁₃ H ₁₁ F ₃ N ₄ O ₄
Molecular Weight:	344.25
Target:	NF-κB
Pathway:	NF-κB
Storage:	<div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 2 years</div> <div>-20°C 1 year</div>



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (726.22 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.9049 mL	14.5243 mL	29.0487 mL
	5 mM		0.5810 mL	2.9049 mL	5.8097 mL
	10 mM		0.2905 mL	1.4524 mL	2.9049 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (6.04 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (6.04 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (6.04 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AP-1/NF-κB activation inhibitor 1 is a potent AP-1 and NF-κB mediated transcriptional activation inhibitor (IC₅₀=1 μM), without blocking basal transcription driven by the β-actin promoter. AP-1/NF-κB activation inhibitor 1 has a similar inhibitory effect on the production of IL-2 and IL-8 levels in stimulated cells^[1].

CUSTOMER VALIDATION

-
- Arthritis Res Ther. 2023 Jul 19;25(1):121.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. 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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA