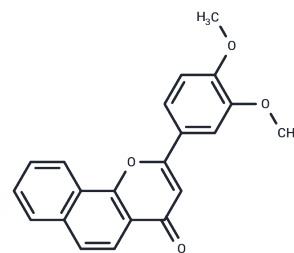


DiMNF

Chemical Properties

CAS No. :	14756-24-2
Formula:	C ₂₁ H ₁₆ O ₄
Molecular Weight:	332.35
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	DiMNF (3',4'-Dimethoxy-αNF) is a selective and potent modulator of the aryl hydrocarbon receptor (AHR) and an AHR ligand with anti-inflammatory activity that inhibits cytokine-mediated induction of complement factor genes.
Targets(IC50)	AhR,Aryl Hydrocarbon Receptor
In vitro	DiMNF is a modulator that selectively acts on the aromatic hydrocarbon receptor (AHR). As a competitive AHR ligand, DiMNF has an IC ₅₀ = 21 nM and exhibits significant antagonistic activity, with DiMNF showing a unique binding mode in the ligand binding site of the AHR. DiMNF effectively inhibited cytokine-induced inflammatory gene expression at a concentration of 10 μM for 1 hour. [1]

Solubility Information

Solubility	DMSO: 1 mg/mL (3.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0089 mL	15.0444 mL	30.0888 mL
5 mM	0.6018 mL	3.0089 mL	6.0178 mL
10 mM	0.3009 mL	1.5044 mL	3.0089 mL
50 mM	0.0602 mL	0.3009 mL	0.6018 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

Murray IA, et al. Suppression of cytokine-mediated complement factor gene expression through selective activation of the Ah receptor with 3',4'-dimethoxy- α -naphthoflavone. Mol Pharmacol. 2011 Mar;79(3):508-19.

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