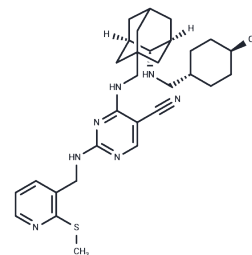


AS2521780

## Chemical Properties

CAS No. : 1214726-89-2  
 Formula: C30H41N7OS  
 Molecular Weight: 547.76  
 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	AS2521780 is an inhibitor of PKC $\theta$ (IC50: 0.48 nM).
Targets(IC50)	PKC
In vitro	AS2521780 effectively inhibits CD3/CD28-induced Interleukin-2 (IL-2) gene transcription in Jurkat T cells and the proliferation of human primary T cells. Additionally, it impedes concanavalin A-induced cytokine production in rat splenocytes and monkey peripheral blood mononuclear cells with comparable efficacy[1]. The compound demonstrates a potent inhibition of recombinant human PKC $\theta$ enzyme activity, with an IC50 value of 0.48 nM, showcasing more than a 30-fold selective inhibition over other PKC isoforms. Moreover, AS2521780 exhibits minimal or no inhibitory effects on other protein kinases.
In vivo	AS2521780 markedly diminishes paw swelling through a dose-dependent mechanism in a rat model of adjuvant-induced arthritis[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8256 mL	9.1281 mL	18.2562 mL
5 mM	0.3651 mL	1.8256 mL	3.6512 mL
10 mM	0.1826 mL	0.9128 mL	1.8256 mL
50 mM	0.0365 mL	0.1826 mL	0.3651 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

Fukahori H, et al. Effect of AS2521780, a novel PKC $\theta$  selective inhibitor, on T cell-mediated immunity. Eur J Pharmacol. 2014 Dec 15;745:217-22.

**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