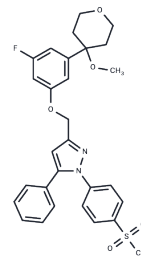


CAY10416

Chemical Properties

CAS No. : 443919-96-8
 Formula: C₂₉H₂₉FN₂O₅
 Molecular Weight: 536.61
 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	Dual cyclooxygenase-2 (COX-2)/5-lipoxygenase (5-LO) inhibitors are potential therapeutic agents for inflammatory diseases and for prostate cancer. CAY10416 is a dual COX-2/5-LO inhibitor with IC ₅₀ values of 50 and 3 nM, respectively. The selectivity of CAY10416 for COX is greater than 200-fold for COX-2 versus COX-1. COX-2/5-LO inhibitors such as CAY10416 are also apoptosis-inducing agents and are potentially useful in prostate cancer chemotherapy. In the PC3 human carcinoma cell line, CAY10416 exhibits a 45% inhibition of proliferation at 100 μM. In the LNCaP human carcinoma cell line, CAY10416 inhibits growth with an IC ₅₀ value of 83 μM.
Targets(IC ₅₀)	Others,COX,Lipoxygenase

Solubility Information

Solubility	DMSO: 30 mg/mL (55.91 mM),Sonication is recommended. DMF: 30 mg/mL (55.91 mM),Sonication is recommended. Ethanol: 5 mg/mL (9.32 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8636 mL	9.3178 mL	18.6355 mL
5 mM	0.3727 mL	1.8636 mL	3.7271 mL
10 mM	0.1864 mL	0.9318 mL	1.8636 mL
50 mM	0.0373 mL	0.1864 mL	0.3727 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.

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