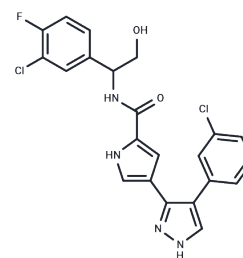


CAY10561

Chemical Properties

CAS No. : 933786-58-4
 Formula: C₂₂H₁₇Cl₂FN₄O₂
 Molecular Weight: 459.3
 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	The extracellular signal-regulated kinase (ERK) signal transduction pathway regulates a diverse array of cellular processes. These processes include cell survival, proliferation, motility, and differentiation and are constitutively activated in cancers involving lung, colon, pancreas, kidney, and ovary. CAY10561 is a potent, ATP-competitive inhibitor of ERK2 (K _i = 2 nM). This compound is highly selective for ERK2 compared to other kinases such as PKA (K _i = 0.39 μM) and JNK3 (K _i = 4 μM). CAY10561 inhibits proliferation of COLO 205 cells with an IC ₅₀ value of 0.54 μM.
Targets(IC ₅₀)	ERK,Others

Solubility Information

Solubility	Ethanol: 5 mg/mL (10.89 mM),Sonication is recommended. Ethanol:PBS (pH 7.2) (1:1): 0.5 mg/mL (1.09 mM),Sonication is recommended. DMF: 2.5 mg/mL (5.44 mM),Sonication is recommended. DMSO: 1.5 mg/mL (3.27 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1772 mL	10.8861 mL	21.7723 mL
5 mM	0.4354 mL	2.1772 mL	4.3545 mL
10 mM	0.2177 mL	1.0886 mL	2.1772 mL
50 mM	0.0435 mL	0.2177 mL	0.4354 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

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