

ERK1/2 inhibitor 1

Chemical Properties

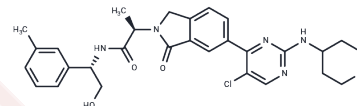
CAS No. : 2095719-90-5

Formula: C₂₉H₃₂ClN₅O₄

Molecular Weight: 550.05

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	ERK1/2 inhibitor 1 is a potent, orally bioavailable compound that exhibits 60% inhibition at 1 nM and has an IC ₅₀ of 3.0 nM against ERK1 and ERK2, respectively.
Targets(IC ₅₀)	ERK
In vitro	ERK1/2 inhibitor 1 shows excellent antiproliferative potency with IC ₅₀ s of 7.5 and 4.9 nM in Colo205 cells and A375, respectively.

Solubility Information

Solubility	DMSO: 150 mg/mL (272.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (18.18 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (18.18 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.818 mL	9.0901 mL	18.1802 mL
5 mM	0.3636 mL	1.818 mL	3.636 mL
10 mM	0.1818 mL	0.909 mL	1.818 mL
50 mM	0.0364 mL	0.1818 mL	0.3636 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

Heightman TD, et al. Fragment-Based Discovery of a Potent, Orally Bioavailable Inhibitor That Modulates the Phosphorylation and Catalytic Activity of ERK1/2. J Med Chem. 2018 Jun 14;61(11):4978-4992.

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