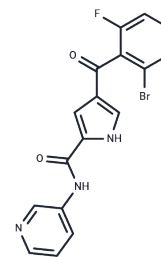


ERK5-IN-2

Chemical Properties

CAS No. : 1888305-96-1
 Formula: C₁₇H₁₁BrFN₃O₂
 Molecular Weight: 388.19
 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	ERK5-IN-2 is an orally active, sub-micromolar, selective ERK5 inhibitor with IC ₅₀ values of 0.82 μM for ERK5 and 3 μM for ERK5 (MEF2D).
Targets(IC ₅₀)	ERK
In vivo	ERK5-IN-2 (compound 46) (p.o.; 100 mg/kg; CD1 mice for 7 days and CD1 nude (nu/nu) mice for 10 days) has an anti-angiogenic effect and low concentrations of haemoglobin. ERK5-IN-2 (i.v. or p.o.; 10 mg/kg for 0.083-24 hours) exhibits low intrinsic clearance and has high flux and a low efflux ratio (ER) in a caco-2 cell permeability assay in both human and mouse.

Solubility Information

Solubility	DMSO: 10 mg/mL (25.76 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: 1 mg/mL (2.58 mM), Sonication is recommended. <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	2.5761 mL	12.8803 mL	25.7606 mL
5 mM	0.5152 mL	2.5761 mL	5.1521 mL
10 mM	0.2576 mL	1.288 mL	2.5761 mL
50 mM	0.0515 mL	0.2576 mL	0.5152 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

Myers SM, Miller DC, Molyneux L, et al .Identification of a novel orally bioavailable ERK5 inhibitor with selectivity over p38 α and BRD4[J].Eur J Med Chem. 2019 Sep 15;178:530-543.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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