

PD0325901-O-C2-dioxolane

Chemical Properties

CAS No. : 2581116-22-3

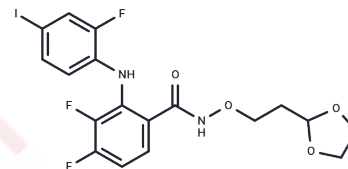
Formula: C₁₈H₁₆F₃IN₂O₄

Molecular Weight: 508.23

Keep away from direct sunlight

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 main body of PD0325901-O-C2-dioxolane is PD0325901, which is a typical non-ATP-competitive MEK1/2 (mitogen-activated protein kinase) inhibitor occupying a variant-binding pocket near the ATP-binding site, with anticancer effects of decreasing ERK phosphorylation and inhibiting cell proliferation.
Targets(IC50)	MEK,Ligands for Target Protein for PROTAC
In vitro	PD0325901 is a potent non-ATP competitive MEK inhibitor that effectively suppresses ERK signaling and tumor cell proliferation [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (157.41 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: 3.3 mg/mL (6.49 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	1.9676 mL	9.8381 mL	19.6761 mL
5 mM	0.3935 mL	1.9676 mL	3.9352 mL
10 mM	0.1968 mL	0.9838 mL	1.9676 mL
50 mM	0.0394 mL	0.1968 mL	0.3935 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

Wei J, et al. Discovery of a First-in-Class Mitogen-Activated Protein Kinase Kinase 1/2 Degradator. J Med Chem. 2019; 62(23):10897-10911.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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