

EOAI3402143

Chemical Properties

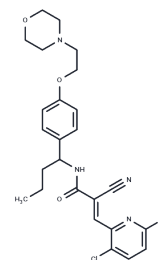
CAS No. : 1699750-95-2

Formula: C₂₅H₂₈Cl₂N₄O₃

Molecular Weight: 503.42

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	EOAI3402143 inhibits Usp9x and Usp24 activity, increases tumor cell apoptosis. EOAI3402143 phenocopies the FAS induction and apoptotic sensitization of Usp5 knockdown and fully blocks melanoma tumor growth.
Targets(IC50)	DUB
In vitro	EOAI3402143 dose-dependently inhibited Usp9x and Usp24 activity, increased tumor cell apoptosis, and fully blocked or regressed myeloma tumors in mice[2]. Usp9x inhibition by EOAI3402143 treatment reduced 3D colony formation in PANC1 and PDX cell lines, induced rapid apoptosis in MIAPACA2 cells, and associated with reduced Mcl-1 and ITCH protein levels[2].
In vivo	EOAI3402143 dose-dependently inhibited Usp9x and Usp24 activity, increased tumor cell apoptosis, and fully blocked or regressed myeloma tumors in mice[3].

Solubility Information

Solubility	DMSO: 150 mg/mL (297.96 mM),Sonication is recommended. H ₂ O: < 0.1 mg/mL (insoluble) (< 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 (19.86 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (19.86 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	1.9864 mL	9.9321 mL	19.8641 mL
5 mM	0.3973 mL	1.9864 mL	3.9728 mL
10 mM	0.1986 mL	0.9932 mL	1.9864 mL
50 mM	0.0397 mL	0.1986 mL	0.3973 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

Potu H, et al. Usp5 links suppression of p53 and FAS levels in melanoma to the BRAF pathway. *Oncotarget*. 2014 Jul 30;5(14):5559-69.

Pal A, et al. Usp9x Promotes Survival in Human Pancreatic Cancer and Its Inhibition Suppresses Pancreatic Ductal Adenocarcinoma In Vivo Tumor Growth. *Neoplasia*. 2018 Feb;20(2):152-164.

Peterson LF, et al. Targeting deubiquitinase activity with a novel small-molecule inhibitor as therapy for B-cell malignancies. *Blood*. 2015 Jun 4;125(23):3588-97.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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