

CC-115

Chemical Properties

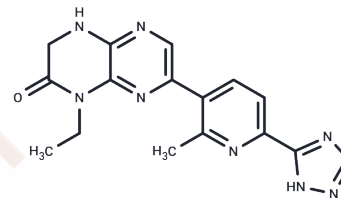
CAS No. : 1228013-15-7

Formula: C₁₆H₁₆N₈O

Molecular Weight: 336.35

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	CC-115 is a inhibitor of mTOR/DNA-PK (IC ₅₀ = 21/ 13 nM).
Targets(IC ₅₀)	DNA-PK,mTOR,PI3K
In vitro	The IC ₅₀ values for CC-115 are >10 μM against a panel of CYP enzymes and >33 μM for the hERG ion channel. When screened in a single point assay at 10 μM against a Cerep receptor and enzyme panel only one target was inhibited >50% (PDE3, IC ₅₀ = 0.63 μM).
In vivo	CC-115 shows good PK profiles across multiple species with 53%, 76%, and 100% oral bioavailability in mouse, rat, and dog, respectively. CC-115, with favorable physicochemical and pharmacokinetic properties, demonstrates mTOR pathway inhibition and tumor growth inhibition, as well as a good safety profile, suitable for Clinical development.
Cell Research	Freshly isolated CLL cells are treated with different concentrations of CC-115 for 30 minutes. Subsequently, the cells are exposed to 5-Gy γ-radiation or treated with 10 μg/mL bleomycin (EMD Millipore, Billerica, MA) and incubated for 30 minutes, and cell lysates are made. (Only for Reference)

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 62 mg/mL (184.33 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: 2 mg/mL (5.95 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	2.9731 mL	14.8655 mL	29.7309 mL
5 mM	0.5946 mL	2.9731 mL	5.9462 mL
10 mM	0.2973 mL	1.4865 mL	2.9731 mL
50 mM	0.0595 mL	0.2973 mL	0.5946 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

Thijssen R, et al. Blood. 2016, 128(4):574-83.

Mortensen DS, et al. J Med Chem. 2015, 58(14):5599-608.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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