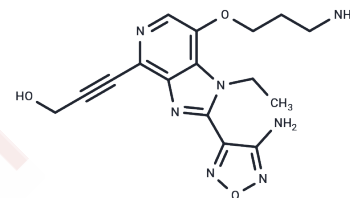


AKT Kinase Inhibitor

Chemical Properties

CAS No. : 842148-40-7
 Formula: C₁₆H₁₉N₇O₃
 Molecular Weight: 357.37
 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	AKT Kinase Inhibitor is an Akt inhibitor with antitumor activity that selectively inhibits cell proliferation in a dose-dependent manner.
Targets(IC50)	Akt
In vitro	METHODS: The proliferative effect of cells expressing Trop-2 was observed by silencing or inhibiting Akt with specific drugs. RESULTS The proliferative effect of cells expressing Trop-2 was significantly reduced in a dose-dependent manner.[1]
In vivo	METHODS: In an animal model, subcutaneously injected Trop-2-expressing tumors were treated with specific drugs that inhibit Akt activity. RESULTS Tumor growth was significantly reduced and Akt played a central functional role in mediating Trop-2-dependent growth stimulation.[1]

Solubility Information

Solubility	H ₂ O: < 0.1 mg/mL (insoluble) DMSO: 10 mg/mL (27.98 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 (2.8 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	2.7982 mL	13.9911 mL	27.9822 mL
5 mM	0.5596 mL	2.7982 mL	5.5964 mL
10 mM	0.2798 mL	1.3991 mL	2.7982 mL
50 mM	0.056 mL	0.2798 mL	0.5596 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

Saverio Alberti, et al. Use of trop-2 as predictive marker of response to anti-tumor therapy based on inhibitors of cd9, akt and molecules of the tetraspanin signalling network. WO2013171777A2.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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