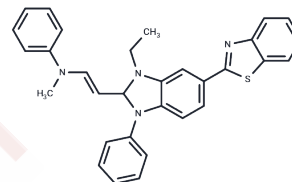


(E)-Akt inhibitor-IV

Chemical Properties

CAS No. : 959841-49-7
 Formula: C₃₁H₂₉N₄S
 Molecular Weight: 616.56
 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	(E)-Akt inhibitor-IV ((E)-AKTIV) is an inhibitor of PI3K-Akt.
Targets(IC50)	Akt
In vitro	(E)-Akt inhibitor-IV shows little effects on the growth of 184B5 non-cancer cells at the average GI20?doses

Solubility Information

Solubility	DMSO: 50 mg/mL (81.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 5 mg/mL (8.11 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (8.11 mM),Solution. <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	1.6219 mL	8.1095 mL	16.219 mL
5 mM	0.3244 mL	1.6219 mL	3.2438 mL
10 mM	0.1622 mL	0.811 mL	1.6219 mL
50 mM	0.0324 mL	0.1622 mL	0.3244 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

Changkun Hu, et al. A 4-aminoquinoline derivative that markedly sensitizes tumor cell killing by Akt inhibitors with a minimum cytotoxicity to non-cancer cells. Eur J Med Chem. 2010 Feb;45(2):705-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481