Data Sheet (Cat.No.T7337)

TargetMol

Kinetin riboside

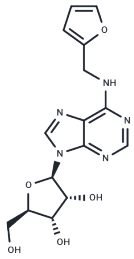
Chemical Properties

CAS No. : 4338-47-0

Formula: C15H17N5O5

Molecular Weight: 347.33

Storage: Keep away from moisture
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	Kinetin riboside (N6-Furfuryladenosine) can induce apoptosis in cancer cells. It inhibits the proliferation of HCT-15 cells(IC50 of 2.5 μM)
Targets(IC50)	Apoptosis
In vitro	kinetin riboside displays antiproliferative and apoptogenic activity against various human cancer cell lines and has been shown to suppress tumor growth in murine xenograft models of human leukemia and melanoma[1].

Solubility Information

Solubility	DMSO: 29 mg/mL (83.49 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 (5.76 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8791 mL	14.3955 mL	28.7911 mL
5 mM	0.5758 mL	2.8791 mL	5.7582 mL
10 mM	0.2879 mL	1.4396 mL	2.8791 mL
50 mM	0.0576 mL	0.2879 mL	0.5758 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

Rajabi M , Gorincioi E , Santaniello E . Antiproliferative Activity of Kinetin Riboside on HCT-15 Colon Cancer Cell Line [J]. Nucleosides, Nucleotides and Nucleic Acids, 2012, 31(6):474-481.

Tiedemann R E , Mao X , Shi C X , et al. Identification of kinetin riboside as a repressor of CCND1 and CCND2 with preclinical antimyeloma activity[J]. Journal of Clinical Investigation, 2008, 118(5):1750-1764.

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