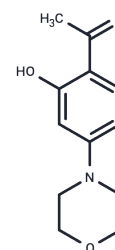


IC 86621

Chemical Properties

CAS No. : 404009-40-1
 Formula: C₁₂H₁₅NO₃
 Molecular Weight: 221.25
 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	IC 86621 is a selective and reversible ATP-competitive inhibitor of DNA-PK with an IC ₅₀ of 120 nM. IC 86621 increases DNA double-strand break(DSB)-induced antitumor activity with an EC ₅₀ of 68 μM for DNA-PK mediated cellular DSB repair.
Targets(IC ₅₀)	Apoptosis,DNA-PK
In vitro	In CD4+CD45RO- T cells, IC 86621 (0 nM, 50 nM, 100 nM) protects rheumatoid arthritis T cells from apoptosis[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (225.99 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 (9.04 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	4.5198 mL	22.5989 mL	45.1977 mL
5 mM	0.904 mL	4.5198 mL	9.0395 mL
10 mM	0.452 mL	2.2599 mL	4.5198 mL
50 mM	0.0904 mL	0.452 mL	0.904 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

Shao L, et al. DNA-dependent protein kinase catalytic subunit mediates T-cell loss in rheumatoid arthritis. *EMBO Mol Med.* 2010 Oct;2(10):415-27.

Chandra G, et al. Improved synthesis of a DNA-dependent protein kinase inhibitor IC86621. *Arch Pharm Res.* 2012 Mar;35(4):639-45.

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