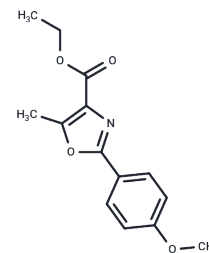


Anticancer agent 73

Chemical Properties

CAS No. :	124811-87-6
Formula:	C ₁₄ H ₁₅ NO ₄
Molecular Weight:	261.27
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	Anticancer agent 73 is an anticancer agent which potently targets transactivation response(TAR) RNA-binding protein 2 (TRBP) and disrupts the TRBP-Dicer interaction. Anticancer agent 73 suppresses the growth and metastasis of HCC in vitro and in vivo by modulating expression profiles of miRNAome and proteome in HCC cells.
Targets(IC50)	DNA/RNA Synthesis
In vitro	Anticancer agent 73 (compound CIB-3b) (10 μM; 6 h) elevates E-cadherin expression and reduces fibronectin, N-cadherin, and vimentin protein levels in SK-HEP-1 cells. It also inhibits the proliferation and migration of SK-HEP-1, HCCLM3, and MHCC97L cells by impeding miRNA biogenesis.[1]
In vivo	Anticancer agent 73 (compound CIB-3b) (10, 25, and 50 mg/kg; i.v.; every 2 days for 4 weeks; SCID mice) diminishes the proliferation and migration of both SK-HEP-1 cells and SK-HEP-1 cells implanted in SCID mice.[1]

Solubility Information

Solubility	DMSO: 90 mg/mL (344.47 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: 3.3 mg/mL (12.63 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	3.8275 mL	19.1373 mL	38.2746 mL
5 mM	0.7655 mL	3.8275 mL	7.6549 mL
10 mM	0.3827 mL	1.9137 mL	3.8275 mL
50 mM	0.0765 mL	0.3827 mL	0.7655 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

Peng T, et al. Discovery of a Novel Small-Molecule Inhibitor Disrupting TRBP-Dicer Interaction against Hepatocellular Carcinoma via the Modulation of microRNA Biogenesis. *J Med Chem.* 2022;65(16):11010-11033.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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