Data Sheet (Cat.No.T17187)

TargetMol

TZ9

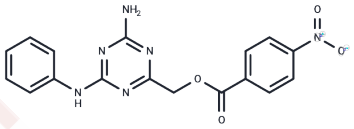
Chemical Properties

CAS No. : 1002789-86-7

Formula: C17H14N6O4

Molecular Weight: 366.33

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	TZ9 is a selective and potent Rad6 inhibitor with anticancer and anti-tumor activity.TZ9 inhibits Rad6B-induced ubiquitination of histone H2A.TZ9 induces cell cycle arrest and apoptosis.
Targets(IC50)	Apoptosis,E1/E2/E3 Enzyme
In vitro	In MDA-MB-231 cells, TZ9 (Rad6B SMI #9) inhibits proliferation and migration when administered at concentrations ranging from 0.5 to 100 μM for 72 hours[1]. Cell-cycle progression delay is observed in MDA-MB-231 cells treated with TZ9 at concentrations ranging from 0.1 to 5 μM over a period of 24 to 72 hours[1]. Apoptosis induction is noted in MDA-MB-231 cells exposed to TZ9 at a concentration of 5 μM for 8 to 48 hours[1]. In MDA-MB-231 cells, TZ9 exhibits inhibitory effects on H2A ubiquitination and downregulates levels of PCNA and β-catenin protein when applied at concentrations of 0.5, 1, 2.5, and 5 μM for 24 hours[1].

Solubility Information

Solubility	DMSO: 40 mg/mL (109.19 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 (5.46 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	2.7298 mL	13.6489 mL	27.2978 mL
5 mM	0.546 mL	2.7298 mL	5.4596 mL
10 mM	0.273 mL	1.3649 mL	2.7298 mL
50 mM	0.0546 mL	0.273 mL	0.546 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

Sanders MA, et al. Novel inhibitors of Rad6 ubiquitin conjugating enzyme: design, synthesis, identification, and functional characterization. Mol Cancer Ther. 2013 Apr;12(4):373-83.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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