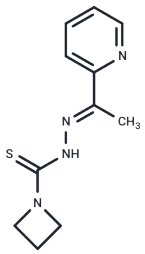
Data Sheet (Cat.No.T2464)

TargetMol

ZMC1

Chemical Properties



CAS No. : 71555-25-4

Formula: C11H14N4S

Molecular Weight: 234.32

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	NSC-319726 (ZMC1), a mutant p53R175 reactivator, suppresses growth of fibroblasts that expresses the p53R175 mutation (IC50 = 8 nM).
Targets(IC50)	p53,MDM-2/p53
In vitro	In cells with mutant p53, NSC319726 (IC50=8 nM) causes a WT-like conformational change in the mutant protein that repairs sequence-specific p53 transcription.
In vivo	In cells with mutant p53, NSC319726 (IC50=8 nM) causes a WT-like conformational change in the mutant protein that repairs sequence-specific p53 transcription.
Kinase Assay	MTS: 5,000 cells of TOV112D cells (5,000 cells/well, in 100 ml culture) are cultured in 96-well plate to reach the 50%-60% confluence on the second day when treated with serial dilutions of the compounds. The growth is measured by MTS reagent and Victor Plate reader instrument after incubation for 3 days.
Cell Research	Viability assays are done. The cells (5×104 cells/well, in 1 ml culture) are cultured in a 12-well plate to reach the 50%-60% confluence on the second day when treated with serial dilutions of the compound. The growth is measured by Guava ViaCount reagent and Guava PCA instrument after incubation for 3 days.(Only for Reference)

Solubility Information

Solubility	Ethanol: 2.3 mg/mL (9.82 mM),Heating is recommended. DMSO: 23.4 mg/mL (99.86 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 (8.54 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	4.2677 mL	21.3383 mL	42.6767 mL
5 mM	0.8535 mL	4.2677 mL	8.5353 mL
10 mM	0.4268 mL	2.1338 mL	4.2677 mL
50 mM	0.0854 mL	0.4268 mL	0.8535 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

Yu X, et al. Cancer Cell, 2012, 21(5), 614-625.