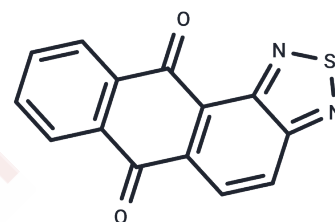


NSC745885

Chemical Properties

CAS No. : 4219-52-7
Formula: C₁₄H₆N₂O₂S
Molecular Weight: 266.27
Storage: Store at low temperature
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	NSC745885 is an antitumor agent non-toxic to normal cells that downregulates EZH2 via proteasome-mediated degradation. It exhibits toxicity against multiple normal and drug-resistant cancer cell lines and may be used in studies of advanced bladder cancer and oral squamous cell carcinoma.
Targets(IC50)	Apoptosis,Histone Methyltransferase
In vitro	NSC745885 (0.5-4 μ M; 24/48/72 h) reduced SAS cell density with growth-inhibitory or pro-apoptotic effects. After 72 h treatment, IC ₅₀ = 0.85 μ M. NSC745885 dose-dependently increased membranin V-positive cells [1]. NSC745885 (0.5-2 μ M; 24/48 hours) dose-dependently reduced XIAP protein levels and increased protein levels in SAS cells [1].
In vivo	NSC745885 (intraperitoneal; 2 mg/kg; daily; 10 days) significantly reduced tumor size compared to controls and demonstrated superior safety to Doxorubicin [1].

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7556 mL	18.7779 mL	37.5559 mL
5 mM	0.7511 mL	3.7556 mL	7.5112 mL
10 mM	0.3756 mL	1.8778 mL	3.7556 mL
50 mM	0.0751 mL	0.3756 mL	0.7511 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

Chen YW, et al. A novel compound NSC745885 exerts an anti-tumor effect on tongue cancer SAS cells in vitro and in vivo. PLoS One. 2014;9(8):e104703. Published 2014 Aug 15.

Tang SH, et al. Pharmacologic down-regulation of EZH2 suppresses bladder cancer in vitro and in vivo. Oncotarget. 2014;5(21):10342-10355.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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