Product Data Sheet

NSC745885

Cat. No.: HY-119198 CAS No.: 4219-52-7 Molecular Formula: C,4H,N,O,S Molecular Weight: 266.27

Target: Apoptosis; Histone Methyltransferase

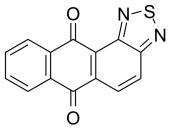
Pathway: Apoptosis; Epigenetics

Powder -20°C Storage: 3 years

In solvent

2 years -80°C 6 months

-20°C 1 month



SOLVENT & SOLUBILITY

DMSO: < 1 mg/mL (insoluble or slightly soluble) In Vitro

BIOLOGICAL ACTIVITY

Description NSC745885 an effective anti-tumor agent, shows selective toxicity against multiple cancer cell lines but not normal cells. NSC745885 is an effective down-regulator of EZH2 via proteasome-mediated degradation. NSC745885 provides

possibilities for the study of advanced bladder and oral squamous cell carcinoma (OSCC) cancers [1][2].

IC₅₀ & Target EZH2

In Vitro NSC745885 (0.5-4 μ M; 24, 48 or 72 hours) has a growth inhibitory or death-promoting effect on the SAS cells, it significantly decreases the densities of cultured cells when compared with untreated cells. The IC $_{50}$ of NSC745885 is 0.85 μ M after 72

hours' treatment^[1]. NSC745885 (0.5-4 µM; 24 hours) increases annexin V positive cells in a dose-dependent manner, and the differences appears as a dose-dependent manner^[1].

NSC745885 (0.5-2 µM; 24 or 48 hours) decreases XIAP protein levels and increases protein levels both as a dose-dependent manner in SAS cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	SAS cells is obtained from a poorly differentiated human squamous cell carcinoma
Concentration:	0.5 μΜ, 1 μΜ, 1.5 μΜ, 2 μΜ, 4 μΜ
Incubation Time:	24, 48, or 72 hours
Result:	Decreases SAS cells growth as a time and dose-dependent manner.

Apoptosis Analysis^[1]

Cell Line:	SAS cells is obtained from a poorly differentiated human squamous cell carcinoma
Concentration:	0.5 μΜ, 1 μΜ, 1.5 μΜ, 2 μΜ, 4 μΜ
Incubation Time:	24 hours
Result:	Decreases SAS cells growth as a time and dose-dependent manner.
Western Blot Analysis ^[1]	
Cell Line:	SAS cells is obtained from a poorly differentiated human squamous cell carcinoma
Concentration:	0.5 μΜ, 1 μΜ, 1.5 μΜ, 2 μΜ
Incubation Time:	24 or 48 hours
Result:	Increased cleaved caspase-3 expression and decreased XIAP expression.
, ,	neal injection; 2 mg/kg; once daily; 10 days) treatment significantly reduces tumor size when cle control, and exhibits a higher safety than doxorubicin $^{[1]}$.
MCE has not independe	ntly confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Eight-week-old NOD/SCID (NOD.CB17 Prkdc ^{scid} /J) mice ^[1]

Intraperitoneal injection; 2 mg/kg; once daily; 10 days

Inhibited engrafted tumors growth in vivo.

REFERENCES

In Vivo

[1]. 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 Aug 15;9(8):e104703.

[2]. Tang SH, et al. Pharmacologic down-regulation of EZH2 suppresses bladder cancer in vitro and in vivo.Oncotarget. 2014 Nov 15;5(21):10342-55.

Caution: Product has not been fully validated for medical applications. For research use only.

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