NSC 146109 hydrochloride

Cat. No.: HY-108638

CAS No.: 59474-01-0

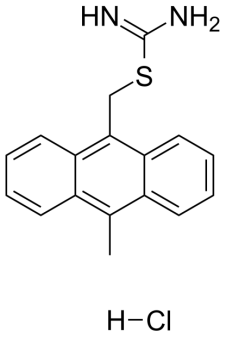
Molecular Formula: $C_{17}H_{17}ClN_2S$

Molecular Weight: 316.85

Target: MDM-2/p53; Apoptosis

Pathway: Apoptosis

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 83.33 mg/mL (263.00 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1561 mL	15.7803 mL	31.5607 mL
	5 mM	0.6312 mL	3.1561 mL	6.3121 mL
	10 mM	0.3156 mL	1.5780 mL	3.1561 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.89 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (6.56 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.56 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

NSC 146109 hydrochloride is a small-molecule p53 activator that target MDMX and can be used for breast cancer research. NSC 146109 hydrochloride is a pseudourea derivative, promotes breast cancer cells to undergo apoptosis through activating p53 and inducing expression of proapoptotic genes[1].

REFERENCES

[1]. Wang H, et al. A small-molecule p53 activator induces apoptosis through inhibiting MDMX expression in breast cancer cells. Neoplasia. 2011 Jul;13(7):611-9.

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

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