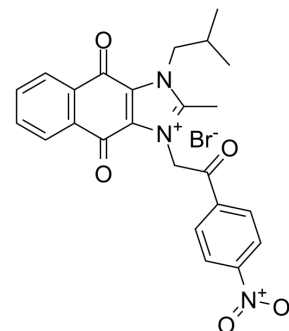


NSC 80467

Cat. No.:	HY-137843
CAS No.:	101982-51-8
Molecular Formula:	C ₂₄ H ₂₂ BrN ₃ O ₅
Molecular Weight:	512.35
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years



* The compound is unstable in solutions, freshly prepared is recommended.

SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (48.79 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.9518 mL	9.7590 mL	19.5179 mL
5 mM	0.3904 mL	1.9518 mL	3.9036 mL
10 mM	0.1952 mL	0.9759 mL	1.9518 mL

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

BIOLOGICAL ACTIVITY

Description

NSC 80467, a DNA damaging agent, selectively inhibits survivin. NSC 80467 preferentially inhibits DNA synthesis and results in induction of γ H2AX and pKAP1, two markers of DNA damage^[1].

In Vitro

NSC 80467 has a similar spectrum of activity against the NCI-60 cell line panel, suppresses survivin expression, shows COMPARE correlation with DNA damaging agents, preferentially inhibits DNA synthesis, and induces a DNA damage response characterized by enhanced γ H2AX and pKAP1 at concentrations lower than those capable of inhibiting survivin expression^[1].

NSC 80467 (200 or 800 nM; 24 hours) inhibits surviving^[1].

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

Western Blot Analysis^[1]

Cell Line:	PC3 cells
Concentration:	200 or 800 nM
Incubation Time:	24 hours

Result:	Associated with inhibition of survivin expression.
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REFERENCES

[1]. Glaros TG, et al. The "survivin suppressants" NSC 80467 and YM155 induce a DNA damage response [published correction appears in Cancer Chemother Pharmacol. 2012 Nov;70(5):763-4]. Cancer Chemother Pharmacol. 2012;70(1):207-212.

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

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