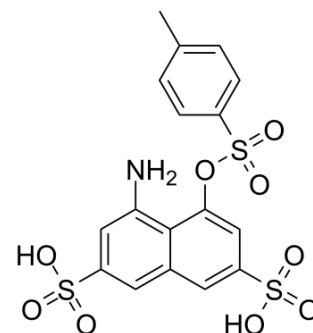


NSC16168

Cat. No.:	HY-100690		
CAS No.:	6837-93-0		
Molecular Formula:	C ₁₇ H ₁₅ NO ₉ S ₃		
Molecular Weight:	473.5		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 31.25 mg/mL (66.00 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1119 mL	10.5597 mL	21.1193 mL
		5 mM	0.4224 mL	2.1119 mL	4.2239 mL
10 mM		0.2112 mL	1.0560 mL	2.1119 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.39 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.39 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	NSC16168 is a specific inhibitor of ERCC1-XPF, with an IC ₅₀ value of 0.42 μM. NSC16168 inhibits DNA repair and potentiates CDDP efficacy in cancer ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.42 μM (ERCC1-XPF) ^[1] .

REFERENCES

[1]. Arora S, et al. Identification of small molecule inhibitors of ERCC1-XPF that inhibit DNA repair and potentiate cisplatin efficacy in cancer cells. *Oncotarget*. 2016 Nov

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

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