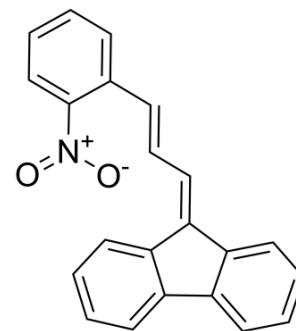


NSC-70220

Cat. No.:	HY-101796	
CAS No.:	4551-00-2	
Molecular Formula:	C ₂₂ H ₁₅ NO ₂	
Molecular Weight:	325.36	
Target:	Others	
Pathway:	Others	
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 : 12.5 mg/mL (38.42 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	3.0735 mL	15.3676 mL	30.7352 mL
			5 mM	0.6147 mL	3.0735 mL	6.1470 mL
			10 mM	0.3074 mL	1.5368 mL	3.0735 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (3.84 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (3.84 μM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	NSC-70220 is a selective and allosteric SOS1 inhibitor. NSC-70220 inhibits allosteric site activation, and partially inhibited catalytic site activation. NSC-70220 has an anticancer effect ^[1] .
IC ₅₀ & Target	SOS1 ^[1] .
In Vitro	The growth inhibitory rate (IR)=(average OD value in the control group-average OD value in the treatment group)/average OD value in the control group×100% are compared. Treatments with NSC-70220 at 40 μM and NSC-658497 at 30 μM result in growth inhibitory rate of 29% and 8% respectively. The combination treatment results in growth inhibitory rate of 54%, showing the synergistic effect of NSC-70220 and NSC-658497 on cell growth inhibition. It is showed that the treatment with NSC-658497 at 40 μM for 2 hours alone or in combination with the treatment with 40 μM of NSC-70220 overnight resulted in lower expression levels of P-AKT and P-ERK. The treatment with 40 μM of NSC-70220 overnight resulted in lower expression

levels of P-ERK^[1].

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

PROTOCOL

Cell Assay ^[1]

MIA paca-2 cells (KRAS G12 C) are subjected to a 3-day proliferation assay following treatment with SOS1-IN-1 (NSC-70220: 40 μ M), treatment with NSC-658497 (30 μ M) and treatment with a combination of SOS1-IN-1 (40 μ M) and NSC-658497 (30 μ M). DMSO is used as the negative control^[1].

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

REFERENCES

[1]. ARYL SULFONOHYDRAZIDES. WO 2016077793A1.

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

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