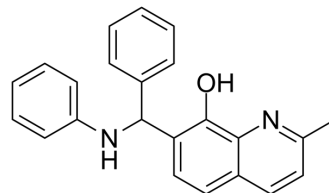


## NSC 66811

Cat. No.:	HY-14967		
CAS No.:	6964-62-1		
Molecular Formula:	C <sub>23</sub> H <sub>20</sub> N <sub>2</sub> O		
Molecular Weight:	340.42		
Target:	MDM-2/p53		
Pathway:	Apoptosis		
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 : 100 mg/mL (293.75 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.9375 mL	14.6877 mL	29.3755 mL
		5 mM	0.5875 mL	2.9375 mL	5.8751 mL
10 mM		0.2938 mL	1.4688 mL	2.9375 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: 2.5 mg/mL (7.34 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.34 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	NSC 66811 is a MDM2-p53 inhibitor, with a K <sub>i</sub> of 120 nM for binding to MDM2 <sup>[1]</sup> .	
In Vitro	NSC 66811 (0, 5, 10, 20 μM) dose-dependently induces the accumulation of p53, MDM2, and p21 <sup>cip1/waf</sup> due to the functional activation of p53 <sup>[1]</sup> .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Western Blot Analysis <sup>[1]</sup>	
	Cell Line:	HCT-116 (p53 <sup>+/+</sup> and p53 <sup>-/-</sup> ) cells <sup>[1]</sup> .
Concentration:	0, 5, 10, 20 μM.	

Incubation Time:	48 h.
Result:	Dose-dependently induced the accumulation of p53, MDM2, and p21 <sup>cip1/waf</sup> proteins in the HCT-116 human colon cancer cell line with wild-type p53. Had no effect on the levels for p53, MDM2, and p21 <sup>cip1/waf</sup> protein in the isogenic HCT-116 p53 <sup>-/-</sup> cell line.

## REFERENCES

[1]. Yipin Lu, et al. Discovery of a nanomolar inhibitor of the human murine double minute 2 (MDM2)-p53 interaction through an integrated, virtual database screening strategy. *J Med Chem.* 2006 Jun 29;49(13):3759-62.

[2]. Sanjeev Shangary, et al. Small-Molecule Inhibitors of the MDM2-p53 Protein-Protein Interaction to Reactivate p53 Function: A Novel Approach for Cancer Therapy. *Annu Rev Pharmacol Toxicol.* 2009;49:223-41.

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

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