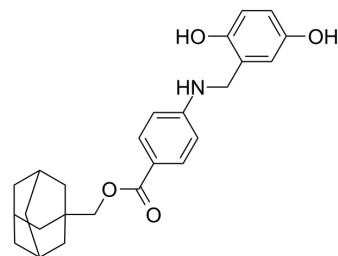


## NSC689857

<b>Cat. No.:</b>	HY-123578		
<b>CAS No.:</b>	241127-79-7		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>29</sub> NO <sub>4</sub>		
<b>Molecular Weight:</b>	407.5		
<b>Target:</b>	EGFR; E1/E2/E3 Enzyme		
<b>Pathway:</b>	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (245.40 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.4540 mL	12.2699 mL	24.5399 mL
	<b>5 mM</b>	0.4908 mL	2.4540 mL	4.9080 mL
	<b>10 mM</b>	0.2454 mL	1.2270 mL	2.4540 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (6.13 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.13 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.13 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	NSC689857 is a potent EGFR and SCF <sup>SKP2</sup> inhibitor with an IC <sub>50</sub> value of 36 μM for Skp2-Cks1. NSC689857 can inhibit p27 ubiquitylation (IC <sub>50</sub> =30 μM). NSC689857 has varied activity across cancer types, with more activity against leukemia cell lines than others <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 36 μM (Skp2-Cks1), 30 μM (p27 ubiquitylation) <sup>[1]</sup>

---

## REFERENCES

---

- [1]. Vuong W, et al. High-Throughput Screen for Inhibitors of Androgen Receptor-RUNX2 Transcriptional Regulation in Prostate Cancer. J Pharmacol Exp Ther. 2016 Nov;359(2):256-261.
- [2]. Lough L, et al. Chemical probes of Skp2-mediated p27 ubiquitylation and degradation. Medchemcomm. 2018 Jun 11;9(7):1093-1104.
- 

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA