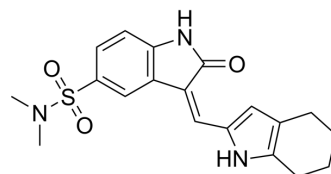


## SU6656

<b>Cat. No.:</b>	HY-B0789		
<b>CAS No.:</b>	330161-87-0		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>21</sub> N <sub>3</sub> O <sub>3</sub> S		
<b>Molecular Weight:</b>	371.45		
<b>Target:</b>	Src; FAK; Akt		
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK; PI3K/Akt/mTOR		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 20 mg/mL (53.84 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.6922 mL	13.4608 mL	26.9215 mL
		5 mM	0.5384 mL	2.6922 mL	5.3843 mL
10 mM		0.2692 mL	1.3461 mL	2.6922 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2 mg/mL (5.38 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	SU6656 is a Src family kinases inhibitor with IC <sub>50</sub> s of 280, 20, 130, 170 nM for Src, Yes, Lyn, and Fyn, respectively. SU6656 inhibits FAK phosphorylation at Y576/577, Y925, Y861 sites. SU6656 also inhibits p-AKT.	
<b>In Vitro</b>	SU6656 decreases phosphorylation of Src family kinases (SFKs) in HNSCC cells <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
<b>In Vivo</b>	SU6656 (2-4 mg/kg; i.p.; once) significantly decreases ischemic postconditioning (IPoCo) mediated increase in fall down time <sup>[5]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	<b>Animal Model:</b>	Swiss albino male mice <sup>[5]</sup>

Dosage:	2, 4 mg/kg
Administration:	Intraperitoneal injection; once
Result:	Significantly decreased IPoCo mediated increase in fall down time.

## CUSTOMER VALIDATION

- Theranostics. 2020 Jul 9;10(19):8573-8590.
- Cancer Res. 2021 Jan 1;81(1):187-198.
- J Med Chem. 2021 Sep 3.
- Biochim Biophys Acta Mol Basis Dis. 2018 Nov;1864(11):3824-3836.
- J Agric Food Chem. 2021 Jul 29.

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## REFERENCES

- [1]. Blake RA, et al. SU6656, a selective src family kinase inhibitor, used to probe growth factor signaling. Mol Cell Biol. 2000 Dec;20(23):9018-27.
- [2]. Veracini L, et al. Elevated Src family kinase activity stabilizes E-cadherin-based junctions and collective movement of head and neck squamous cell carcinomas. Oncotarget. 2014 Dec 26.
- [3]. Wu ML, et al. Divergent signaling pathways cooperatively regulate TGF $\beta$  induction of cysteine-rich protein 2 in vascular smooth muscle cells. Cell Commun Signal. 2014 Mar 28;12:22.
- [4]. Ondrusová L, et al. Inhibition of mTORC1 by SU6656, the selective Src kinase inhibitor, is not accompanied by activation of Akt/PKB signalling in melanoma cells. Folia Biol (Praha). 2013;59(4):162-7.
- [5]. Kumar A, et al. Pharmacological investigations on possible role of Src kinases in neuroprotective mechanism of ischemic postconditioning in mice. Int J Neurosci. 2014 Oct;124(10):777-86.
- [6]. Liu XF, et al. Antitumor effects of immunotoxins are enhanced by lowering HCK or treatment with SRC kinase inhibitors. Mol Cancer Ther. 2014 Jan;13(1):82-9.

**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