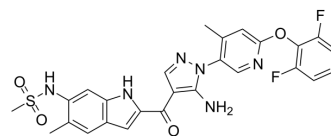


## CH6953755

<b>Cat. No.:</b>	HY-135299		
<b>CAS No.:</b>	2055918-71-1		
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>22</sub> F <sub>2</sub> N <sub>6</sub> O <sub>4</sub> S		
<b>Molecular Weight:</b>	552.55		
<b>Target:</b>	Src		
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (226.22 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg			5 mg			10 mg		
			Concentration			Concentration			Concentration		
1 mM			1.8098 mL			9.0490 mL			18.0979 mL		
5 mM			0.3620 mL			1.8098 mL			3.6196 mL		
10 mM			0.1810 mL			0.9049 mL			1.8098 mL		

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (3.76 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (3.76 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (3.76 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

CH6953755 is a potent, orally active and selective YES1 kinase (a member of the SRC family) inhibitor with an IC<sub>50</sub> of 1.8 nM. CH6953755 inhibits YES1 kinase, leading to antitumor activity against YES1 Gene -amplified cancers in vitro and in vivo<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 1.8 nM (YES1)<sup>[1]</sup>

#### In Vitro

CH6953755 (0.001-1 μM; for 4 days) inhibits the cell growth of YES1-amplified cancer cell lines<sup>[1]</sup>.  
CH6953755 (0.001-1 μM; for 2 hours) prevents the autophosphorylation at Tyr426 of YES1 that upregulates enzymatic activity

in KYSE70 cells harboring YES1 amplification<sup>[1]</sup>.

CH6953755 (0.1, 0.3, 1, 3  $\mu$ M) suppresses TEAD luciferase reporter activity in YES1-amplified KYSE70 and RERF-LC-AI<sup>[1]</sup>.

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

#### Cell Viability Assay<sup>[1]</sup>

Cell Line:	YES1-amplified cancer cell lines KYSE70 and OACP4 C, and non-YES1-amplified cancer cell line K562 expressing YES1-WT or YES1-GK
Concentration:	0.001, 0.01, 0.1, 1 $\mu$ M
Incubation Time:	4 days
Result:	Inhibited the cell growth of YES1-amplified cancer cell lines.

#### Western Blot Analysis<sup>[1]</sup>

Cell Line:	KYSE70 cell line
Concentration:	0.001, 0.003, 0.01, 0.03, 0.1, 0.3, 1 $\mu$ M
Incubation Time:	2 hours
Result:	Prevented the autophosphorylation at Tyr426 of YES1 that upregulates enzymatic activity in KYSE70 cells harboring YES1 amplification

#### In Vivo

CH6953755 (oral; 60 mg/kg/day; for 10 days) shows selective antitumor activity accompanied with phospho-Tyr426 YES1 suppression in xenograft tumors<sup>[1]</sup>.

CH6953755 (oral; 7.5, 15, 30, 60 mg/kg) suppresses phospho-Tyr426 YES1 in a dose-dependent manner<sup>[1]</sup>.

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

Animal Model:	Female BALB/c-nu/nu mice with Rat-2_YES1 xenograft <sup>[1]</sup>
Dosage:	60 mg/kg
Administration:	Oral; daily; for 10 days
Result:	Showed selective antitumor activity accompanied with phospho-Tyr426 YES1 suppression in xenograft tumors.

## CUSTOMER VALIDATION

- Front Pharmacol. 2021 Mar 8;12:644342.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Hamanaka N, et al. YES1 Is a Targetable Oncogene in Cancers Harboring YES1 Gene Amplification. Cancer Res. 2019 Nov 15;79(22):5734-5745.

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**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