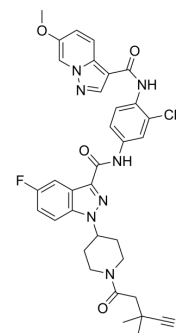


## Src Inhibitor 3

<b>Cat. No.:</b>	HY-130254		
<b>CAS No.:</b>	2380027-49-4		
<b>Molecular Formula:</b>	C <sub>34</sub> H <sub>32</sub> ClFN <sub>8</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	671.12		
<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	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (149.00 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	1.4900 mL	7.4502 mL	14.9005 mL
		5 mM	0.2980 mL	1.4900 mL	2.9801 mL
10 mM		0.1490 mL	0.7450 mL	1.4900 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 >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.73 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.10 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Src Inhibitor 3 is a potent, orally active c-terminal Src kinase (CSK) with IC <sub>50</sub> values below 3 nM and 4 nM in CSK HTRF and Caliper assay, respectively. Src Inhibitor 3 shows the ability to increase T cell proliferation induced by T cell receptor signaling <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : <3 nM (c-terminal Src kinase in CSK HTRF assay), 4 nM (c-terminal Src kinase in Caliper assay) <sup>[1]</sup>
<b>In Vivo</b>	Src Inhibitor 3 reduces inhibitory LCK phosphorylation in vivo upon oral dosing and shows the ability to enhance T cell activation in response to antigen stimulation <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Int J Mol Sci. 2021 Aug 27;22(17):9289.

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## REFERENCES

- [1]. O'Malley DP, et al. Discovery of Pyridazinone and Pyrazolo[1,5-a]pyridine Inhibitors of C-Terminal Src Kinase. ACS Med Chem Lett. 2019 Sep 25;10(10):1486-1491.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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