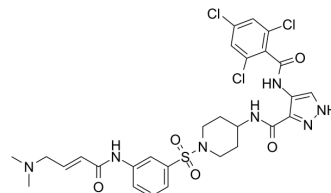


## FMF-04-159-2

Cat. No.:	HY-127104		
CAS No.:	2364489-81-4		
Molecular Formula:	C <sub>28</sub> H <sub>30</sub> Cl <sub>3</sub> N <sub>7</sub> O <sub>5</sub> S		
Molecular Weight:	683.01		
Target:	CDK		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (366.03 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	1.4641 mL	7.3205 mL
		5 mM	1.4641 mL	2.9282 mL
		10 mM	0.1464 mL	0.7321 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: ≥ 2.08 mg/mL (3.05 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.05 mM); Clear solution			

### BIOLOGICAL ACTIVITY

Description	FMF-04-159-2 is a covalent CDK14 inhibitor. FMF-04-159-2 inhibits CDK14 and CDK2 with IC <sub>50</sub> s of 39.6 nM and 256 nM in NanoBRET assay, respectively <sup>[1]</sup> .	
IC <sub>50</sub> & Target	CDK14/Cyclin Y	CDK2
	39.6 nM (IC <sub>50</sub> , in NanoBRET assay)	256 nM (IC <sub>50</sub> , in NanoBRET assay)
In Vitro	FMF-04-159-2 inhibits HCT116 proliferation with an IC <sub>50</sub> of 1,144±190 nM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

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## CUSTOMER VALIDATION

- Cell Rep. 2022 Sep 13;40(11):111331.

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

## REFERENCES

[1]. Ferguson FM, et al. Discovery of Covalent CDK14 Inhibitors with Pan-TAIRE Family Specificity. Cell Chem Biol. 2019 Mar 11. pii: S2451-9456(19)30070-4.

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

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