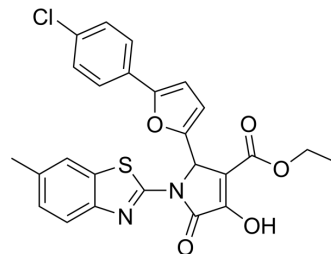


## PS432

Cat. No.:	HY-117366		
CAS No.:	2083630-26-4		
Molecular Formula:	C <sub>25</sub> H <sub>19</sub> ClN <sub>2</sub> O <sub>5</sub> S		
Molecular Weight:	494.95		
Target:	PKC		
Pathway:	Epigenetics; TGF-beta/Smad		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (202.04 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.0204 mL	10.1020 mL	20.2041 mL
5 mM	0.4041 mL	2.0204 mL	4.0408 mL
10 mM	0.2020 mL	1.0102 mL	2.0204 mL

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

### BIOLOGICAL ACTIVITY

#### Description

PS432 is a PKC inhibitor with IC<sub>50</sub>s of 16.9 μM (PKC<sub>α</sub>) and 18.5 μM (PKC<sub>ζ</sub>), respectively. PS432 effectively inhibits the proliferation of non-small cell lung cancer cells (NSCLCs) and tumor growth in mouse xenograft models<sup>[1]</sup>.

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

PKC <sub>ζ</sub> 18.5 μM (IC <sub>50</sub> )	PKC <sub>α</sub> 16.9 μM (IC <sub>50</sub> )
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#### In Vitro

PS432 (25 μM; 24 h) inhibits cancer cells proliferation, with IC<sub>50</sub>s of 30.7 μM (A549) and 12.4 μM (A427) in semi solid agar medium, for example<sup>[1]</sup>.  
 PS432 (50 μM; 12, 24, and 36 h) arrests cell cycle at G<sub>0</sub>/G<sub>1</sub> phase in A549 lung cancer cells<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

PS432 (2.5 mg/kg; i.p.; once daily for 14 d) inhibits tumor growth in xenograft model of lung cancer<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Arencibia JM, et al. An Allosteric Inhibitor Scaffold Targeting the PIF-Pocket of Atypical Protein Kinase C Isoforms. ACS Chem Biol. 2017 Feb 17;12(2):564-573.

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

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