## K-Ras-PDEδ-IN-1

MedChemExpress

Cat. No.:	HY-115555			
CAS No.:	1841464-21-8			
Molecular Formula:	C <sub>25</sub> H <sub>26</sub> FN <sub>5</sub> O <sub>2</sub>			
Molecular Weight:	447.5			
Target:	Phosphodiesterase (PDE)			
Pathway:	Metabolic Enzyme/Protease			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

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### SOLVENT & SOLUBILITY

In Vitro DMSO : 12.5 mg/mL (	DMSO : 12.5 mg/mL (27.93 mM; Need ultrasonic)						
		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	1 mM	2.2346 mL	11.1732 mL	22.3464 mL			
		5 mM	0.4469 mL	2.2346 mL	4.4693 mL		
	10 mM	0.2235 mL	1.1173 mL	2.2346 mL			
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent Solubility: 1.25 mg	one by one: 10% DMSO >> 40% PEC g/mL (2.79 mM); Suspended solution	3300 >> 5% Tween-8 ; Need ultrasonic	0 >> 45% saline			

BIOLOGICAL ACTIVITY				
Description	K-Ras-PDEδ-IN-1 is a novel and potent competitive K-Ras-PDEδ inhibitor. K-Ras-PDEδ-IN-1 binds to the farnesyl binding pocket of PDEδ with a low nanomolar K <sub>d</sub> of 8 nM <sup>[1]</sup> .			
IC <sub>50</sub> & Target	PDE4 8.3 nM (Kd)			
In Vitro	K-Ras-PDEδ-IN-1 exhibits an IC <sub>50</sub> value of 12.3 μM in PaTu8902/Panc1 CTG assay <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	K-Ras-PDEδ-IN-1 (oral or intraperitoneal injection; 10 mg/kg; single dose) is in different vehicles (A=5% Tween-80, 50% NaCl, 45% H2O; B=20% DMSO, 80% PEG200; C=15% DMSO, 9.5% Cremophor EL/EtOH (1:1), 75.5 % H2O) for oral and intraperitoneal (IP) administration.whereas only very low compound levels are found in plasma after oral dosage, but			

# Product Data Sheet

`N´ H significantly higher plasma concentrations are found after IP administration in vehicle A, B or C at 10 mg kg<sup>[1]</sup>. K-Ras-PDE $\delta$ -IN-1 (intravenous injection; 3 mg kg; single dose; 24 hours) shows a significant increase of the plasma exposure as well as the terminal half-life (t<sub>1/2</sub>=0.4 hours) when compares to compound 93,exhibits a t<sub>1/2</sub>, CO, AUC<sub>0-tz</sub>, AUC<sub>0.inf-obs</sub>, Cl <sub>obs</sub>, and Vss<sub>0-inf-obs</sub> values of 4.1 hours, 2790.9 ng/ml, 1646.4 h.ng/ml, 1662.5 h.ng/ml, 1.8 L/h/kg, 5.9 l/kg<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Sandip Murarka, et al. Development of Pyridazinone Chemotypes Targeting the PDE& Prenyl Binding Site. Chemistry. 2017 May 2;23(25):6083-6093.

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

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