CAY10594

Cat. No.:	HY-121983				
CAS No.:	1130067-34	-3			
Molecular Formula:	$C_{26}H_{28}N_4O_2$				
Molecular Weight:	428.53				
Target:	Phospholipase				
Pathway:	Metabolic Enzyme/Protease				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	2.3336 mL	11.6678 mL	23.3356 mL	
		5 mM	0.4667 mL	2.3336 mL	4.6671 mL	
		10 mM	0.2334 mL	1.1668 mL	2.3336 mL	
	Please refer to the so	ease refer to the solubility information to select the appropriate solvent.				
ı Vivo		t one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline mg/mL (2.66 mM); Clear solution				
	t one by one: 10% DMSO >> 90% corn oil mg/mL (2.66 mM); Clear solution					

BIOLOGICAL ACTIV	ТТҮ
Description	CAY10594 is a potent phospholipase D2 (PLD2) inhibitor both in vitro (IC ₅₀ =140 nM) and in cells (IC ₅₀ =110 nM) ^[1] . CAY10594 strongly inhibits the invasive migration of breast cancer cells in vitro and ameliorates acetaminophen-induced acute liver
	injury by regulating the phosphorylated-GSK-3 β /JNK axis ^[2] .

REFERENCES

[1]. Scott, S.A., Selvy, P.E., Buck, J.R., et al. Design of isoform-selective phospholipase D inhibitors that modulate cancer cell invasiveness



[2]. Lee SK, et al. A phospholipase D2 inhibitor, CAY10594, ameliorates acetaminophen-induced acute liver injury by regulating the phosphorylated-GSK-3β/JNK axis. Sci Rep. 2019 May 10;9(1):7242.

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

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