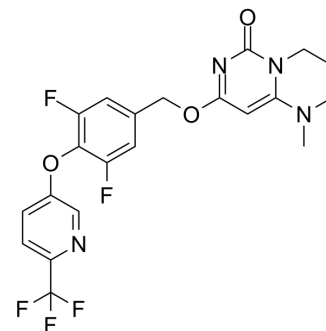


## Lp-PLA2-IN-1

<b>Cat. No.:</b>	HY-19757		
<b>CAS No.:</b>	1420367-28-7		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>17</sub> F <sub>5</sub> N <sub>4</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	468.38		
<b>Target:</b>	Phospholipase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	Ethanol : 25 mg/mL (53.38 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.1350 mL	10.6751 mL	21.3502 mL
		5 mM	0.4270 mL	2.1350 mL	4.2700 mL
10 mM		0.2135 mL	1.0675 mL	2.1350 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.34 mM); Clear solution  2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.34 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Lp-PLA2-IN-1 is a potent Lipoprotein-associated phospholipase A2 (Lp-PLA2) inhibitor. Lp-PLA2-IN-1 has the potential for atherosclerosis, Alzheimer's disease research <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Lp-PLA2
<b>In Vitro</b>	Lipoprotein-associated phospholipase A2 (Lp-PLA2) is a phospholipase A2 enzyme involved in hydrolysis of lipoprotein lipids or phospholipids. Lp-PLA2 travels with low-density lipoprotein (LDL) and rapidly cleaves oxidized phosphatidylcholine molecules derived from the oxidation of LDL <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]. Zehong Wan, et al. Bicyclic pyrimidone compounds. WO2013014185A1.

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

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