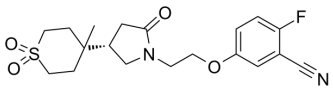
Lp-PLA2-IN-2

Cat. No.:	HY-133148
CAS No.:	2071636-15-0
Molecular Formula:	$C_{19}H_{23}FN_2O_4S$
Molecular Weight:	394.46
Target:	Phospholipase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Lp-PLA2-IN-2 is a potent and selective lipoprotein-associated phospholipase A2 (Lp-PLA2) inhibitor, with an IC_{50} 0f 120 nM for recombinant human Lp-PLA2[1].
IC_{50} & Target	Lp-PLA2 120 nM (IC_{50})
In Vitro	Lp-PLA2-IN-2 inhibits Human Lp-PLA2 with an IC_{50} of 62 nM in PED6 assay[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Lp-PLA2-IN-2 (1 mg/kg; i.v.) treament in rats shows that the Cl, Vss and $t_{1/2}$ values are 67 mL/min/kg, 1.2 L/kg, and 0.34 hours, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Han Wistar rats (250-300 g)[1]
Dosage:	1 mg/kg
Administration:	i.v. (Pharmacokinetic Analysis)
Result:	The Cl, Vss and $t_{1/2}$ values were 67 mL/min/kg, 1.2 L/kg, and 0.34 hours, respectively.

REFERENCES

[1]. Woolford AJ, et al. Fragment-Based Approach to the Development of an Orally Bioavailable Lactam Inhibitor of Lipoprotein-Associated Phospholipase A2 (Lp-PLA2). J Med Chem. 2016 Dec 8;59(23):10738-10749.

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

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