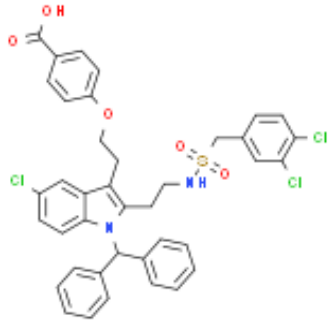
Product Data Sheet

Cas No.:	381683-92-7	Cat. No:	PL09741
Product Name:	Ecopladib		
Product synonym:	-		
Chemical name:	Ecopladib		
MF:	C39H33N2O5SCL3	FW:	748.11372
Purity:	95%	Batch No.:	-
Storage:			
Structural formula:			
λmax：	-	Formulation：	-
Solubility :			
SMILES :	O=C(O)C1=CC=C(OCCC2=C(CCNS(=O)(CC3=CC=C(Cl)C(Cl)=C3)=O)N(C(C4=CC=CC=C4)C5=CC=CC=C5)C6=C2C=C(Cl)C=C6)C=C1		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

Ecopladib 是一种胞浆磷脂酶 A2α (phospholipase A2α) 抑制剂，在 GLU micelle 和大鼠全血细胞中，IC_{50} 值分别为 0.15 μM 和 0.11 μM。

生物活性	Ecopladib is a sub-micromolar inhibitor of cytosolic phospholipase A2α (cPLA2α), with IC 50 s of 0.15 μM and 0.11 μM in the GLU micelle and rat whole blood assays, respectively.
IC50 & Target[1][2]	IC50: 0.15 μM (cPLA2α, in GLU micelle), 0.11 μM (cPLA2α, rat blood)
体外研究(In Vitro)	Ecopladib inhibits cPLA2α in the PAPE liposome assay at 73% at a concentration of 37 nM, while it inhibits sPLA2 at 16% at 1 μM. Ecopladib inhibits the production of prostaglandins (PGF2α) and leukotrienes (LTB4 and LTC4/D4/E4) with comparable IC50s of 20?30 nM. Ecopladib is inactive against COX-1 and COX-2 at 20 μM, which is nearly 100 times the IC50 in the MC-9 cells. Ecopladib inhibit 12- and 15-HETE, which are derived from arachidonic acid via the 12- and 15-lipoxygenase pathways and the IC50s are ～0.3 μM. has not independently confirmed the accuracy of these methods. They are for reference only.
体内研究(In Vivo)	Ecopladib is orally efficacious in this model and displays an ED 50 of 8 mg/kg, demonstrating that it can inhibit COX-2 derived PGE2 formation in vivo. Ecopladib is orally efficacious at reducing carrageenan-induced paw swelling:?from dose?response studies, it is determined that the ED 50 is 40 mg/kg. has not independently confirmed the accuracy of these methods. They are for reference only.

包装储存	Powder -20°C 3 years；4°C 2 years