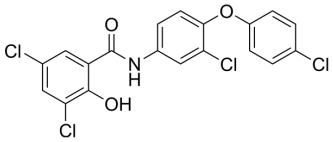
hPL-IN-2

Cat. No.:	HY-155837
CAS No.:	24900-61-6
Molecular Formula:	$C_{19}H_{11}Cl_4NO_3$
Molecular Weight:	443.11
Target:	Others
Pathway:	Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (225.68 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2568 mL	11.2839 mL	22.5678 mL
5 mM	0.4514 mL	2.2568 mL	4.5136 mL
10 mM	0.2257 mL	1.1284 mL	2.2568 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.64 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

hPL-IN-2 (compound 2u) is a potent, reversible, and non-competitive inhibitor of pancreatic lipase (IC_{50}: 1.63 μM) and can be used in anti-obesity research[1].

IC_{50} & Target

IC50: 1.63 μM (Pancreatic lipase, PL); Ki⊠1.7 μM (human PL)[1]

REFERENCES

[1]. Zhao Y, et al. Design, synthesis and biological evaluation of salicylanilides as novel allosteric inhibitors of human pancreatic lipase. Bioorg Med Chem. 2023 Aug

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