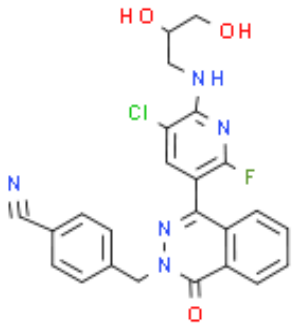
Product Data Sheet

Cas No.:	2305897-84-9	Cat. No:	PL03224
Product Name:	HBV-IN-4		
Product synonym:	-		
Chemical name:	HBV-IN-4		
MF:	C24H19CLFN5O3	FW:	479.8908
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	ClC1=C(N=C(C(=C1[H])C1C2=C([H])C([H])=C([H])C([H])=C2C(N(C([H])([H])C2C([H])=C([H])C(C#N)=C([H])C=2[H])N=1)=O)F)N([H])C([H])([H])C([H])(C([H])([H])O[H])O[H]		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

HBV-IN-4，是一种酞嗪酮衍生物，是一种有效的具有口服活性的 HBV DNA 复制抑制剂，IC_{50} 为 14 nM。HBV-IN-4 可诱导无基因组衣壳的形成，并具有强大的抗 HBV 效力。

生物活性	HBV-IN-4, a phthalazinone derivative, is a potent and orally active HBV DNA replication inhibitor with an IC 50 of 14 nM. HBV-IN-4 induces the formation of genome-free capsids and has potent anti-HBV potencies.
IC50 & Target[1][2]	IC50: 14 nM (HBV DNA replication)
体外研究(In Vitro)	HBV-IN-4 (compound 19f; 0-1 μM; 8 days) treatment inhibits the various forms (relaxed circular [rc] and single-stranded [ss] HBV DNA) in a dose-dependent manner in HepG2.2.15 cells. HBV-IN-4 treatment could also reduce capsidassociated DNAs dose-dependently. HBV-IN-4 could induce the formation of genome-free capsids, including a phenotype of faster-migrating ones. has not independently confirmed the accuracy of these methods. They are for reference only.

体内研究(In Vivo)	HBV-IN-4 (Compound 19f; 50-150 mg/kg; oral administration; twice a day; for 4 weeks; Balb/c male mice) treatment achieves 2.67 log viral load reduction in AAV-HBV/mouse model. HBV-IN-4 (compound 19f) exhibits favorable drug characteristics with low plasma clearance (CL=4.1 mL/min/kg), excellent drug exposure (AUC 0-t =49 744 h?ng/L), T 1/2 (2.15 hours) and oral bioavailability (F=60.4%) using 20 mg/kg oral administration in mice. HBV-IN-4 also shows good distribution in liver exposure. 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
溶解度数据	In Vitro: DMSO : 100 mg/mL (208.38 mM; Need ultrasonic)配制储备液