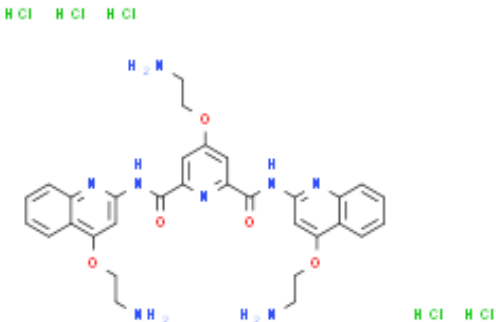


Product Data Sheet

Cas No.:	1781882-65-2	Cat. No:	PL04373
Product Name:	Pyridostatin hydrochloride		
Product synonym:	RR-82 hydrochloride		
Chemical name:	Pyridostatin hydrochloride		
MF:	C31H37CL5N8O5	FW:	778.9411
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	<chem>Cl[H].Cl[H].Cl[H].Cl[H].Cl[H].O(C([H])([H])C([H])([H])N([H])[H])C1=C([H])C(N([H])C(C2C([H])=C(C([H])=C(C(N([H])C3C([H])=C(C4=C([H])C([H])=C([H])C([H])=C4N=3)OC([H])([H])C([H])([H])N([H])[H])=O)N=2)OC([H])([H])C([H])([H])N([H])[H])=O)=NC2=C([H])C([H])=C([H])C([H])=C12</chem>		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

Pyridostatin (RR82) hydrochloride 是一种高选择性的 G-quadruplex DNA 稳定剂 ($K_d=490$ nM)。Pyridostatin hydrochloride 通过诱导复制和转录依赖的 DNA 损伤促进人类癌细胞生长停滞。Pyridostatin hydrochloride 靶向原癌基因 Src。Pyridostatin hydrochloride 降低人乳腺癌细胞 SRC 蛋白水平和 SRC 依赖的细胞运动。

生物活性	Pyridostatin (RR82) hydrochloride is a G-quadruplex DNA stabilizing agent (K _d =490 nM). Pyridostatin hydrochloride promotes growth arrest in human cancer cells by inducing replication- and transcription-dependent DNA damage. Pyridostatin hydrochloride targets the proto-oncogene Src. Pyridostatin hydrochloride reduced SRC protein levels and SRC-dependent cellular motility in human breast cancer cells.
IC50 & Target[1][2]	Kd: 490 nM (G-quadruplexe)

体外研究(In Vitro)	Pyridostatin (RR82) hydrochloride (10 μM; 48 hours) induces cell cycle arrest. Pyridostatin hydrochloride is a very selective G-quadruplex DNA-binding small molecule designed to form a complex with and stabilize G-quadruplex structure. Pyridostatin hydrochloride causes neurite retraction, synaptic loss, and dose-dependent neuronal death. In cultured primary neurons, Pyridostatin hydrochloride induces the formation of DNA DSBs. Remarkably, Pyridostatin hydrochloride (1-5 μM, overnight) downregulates the BRCA1 protein, a protein that guards and repairs the neuronal genome, at the transcriptional level. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	4°C, stored under nitrogen In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)
溶解度数据	In Vitro: H ₂ O : 50 mg/mL (64.19 mM; Need ultrasonic)配制储备液