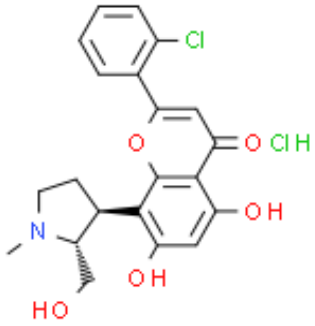
Product Data Sheet

Cas No.:	920113-03-7	Cat. No:	PL04627
Product Name:	Riviciclib hydrochloride		
Product synonym:	4-(4-氨基-苯基)-2-甲基-丁-3-炔-2-醇;P276-00 抑制剂;新型CDK1,CDK4和CDK9抑制剂P276-00		
Chemical name:	Riviciclib hydrochloride		
MF:	C21H21CL2NO5	FW:	438.301144361496
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	OC1C=C(O)C2C(C=C(C3C=CC=CC=3Cl)OC=2C=1[C@@H]1CCN(C)[C@H]1CO)=O.Cl		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

Riviciclib hydrochloride (P276-00) 是有效的 CDK 抑制剂，抑制 CDK9-cyclinT1，CDK4-cyclin D1，CDK1-cyclinB 的 IC_{50} 值分别为 20 nM，63 nM，79 nM。
Riviciclib hydrochloride (P276-00) 对 Cisplatin 耐药性细胞具有抗肿瘤活性。

生物活性	Riviciclib hydrochloride (P276-00) is a potent cyclin-dependent kinase (CDK) inhibitor, which inhibits CDK9-cyclinT1, CDK4-cyclin D1, and CDK1-cyclinB with IC 50 s of 20 nM, 63 nM, and 79 nM, respectively. Riviciclib hydrochloride (P276-00) shows antitumor activity on cisplatin-resistant cells.
IC50 & Target[1][2]	CDK9- Cyclin T1 0.020 μM (IC50) cdk4-cyclin D1 <
体外研究(In Vitro)	Riviciclib hydrochloride (1.5-5 μM; 72 hours) shows no detectable cells in G1 and G2 in promyelocytic leukemia cells and arrest of cells in G1 in synchronized human non-small cell lung carcinoma (H-460) and human normal lung fibroblast (WI-38) cells. Riviciclib hydrochloride (3-24 hours; 1.5 μM) reduces cyclin D1, Cdk4, and Rb levels in H-460 cells. Rb (retinoblastoma) phosphorylation at Ser decrease at 3 h. Riviciclib hydrochloride shows activity in human cancer cell lines, such as colon carcinoma, osteosarcomal, cervical carcinoma, and bladder carcinoma cells. has not independently confirmed the accuracy of these methods. They are for reference only.

体内研究(In Vivo)	Riviciclib hydrochloride (administered i.p.; 35 kg/mg daily for 10 days, in human xenograft mode with severe combined immunodeficient mice) shows significant inhibition in the growth of human colon carcinoma HCT-116 xenograft. Riviciclib hydrochloride (administered via i.p.; 50 mg/kg once daily; 30 mg/kg twice daily for 18 treatments, in human xenograft mode with severe combined immunodeficient mice) significantly inhibited growth. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	4°C, sealed storage, away from moistur In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)
溶解度数据	In Vitro: DMSO : 50 mg/mL (114.08 mM; Need ultrasonic)H_2O : 25 mg/mL (57.04 mM; Need ultrasonic)配制储备液