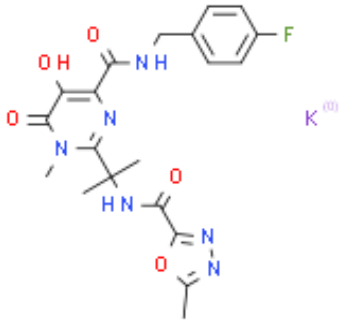
Product Data Sheet

Cas No.:	871038-72-1	Cat. No:	PL01418
Product Name:	Raltegravir potassium		
Product synonym:	雷特格韦钾盐;N-(2-(4-(4-氟苄基氨基甲酰基)-5-羟基-1-甲基-6-氧代-1,6-二氢嘧啶-2-基)丙-2-基)-5-甲基-1,3,4-恶二唑-2-甲酰胺钾盐;拉替拉韦;拉替拉韦-13C-D3;雷特格韦钾;雷特格韦钾盐标准品;雷特格韦		
Chemical name:	Raltegravir potassium		
MF:	C20H20FKN6O5	FW:	482.5067
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax：	-	Formulation：	-
Solubility :			
SMILES :	[K+].FC1C([H])=C([H])C(=C([H])C=1[H])C([H])([H])N([H])C(C1=C(C(N(C([H])([H])[H])C(C(C([H])([H])[H])([H])[H])(C([H])([H])[H])N([H])C(C2=NN=C(C([H])([H])[H])O2)=O)=N1)=O)[O-])=O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

Raltegravir (MK 0518) potassium 是一种有效的 integrase 抑制剂，用于研究 HIV 感染。

生物活性	Raltegravir (MK 0518) potassium is a potent integrase (IN) inhibitor, used to treat HIV infection.
体外研究(In Vitro)	PFV IN carrying the S217H substitution is 10-fold less susceptible to Raltegravir with IC50 of 900 nM. PFV IN displays 10% of WT activity and is inhibited by Raltegravir with an IC50 of 200 nM, indicating a appr twofold decrease in susceptibility to the IN strand transfer inhibitor (INSTI) compared with WT IN. S217Q PFV IN is as sensitive to Raltegravir as the WT enzyme. Raltegravir is metabolized by glucuronidation, not hepatically. Raltegravir has potent in vitro activity against HIV-1, with a 95% inhibitory concentration of 31±20 nM, in human T lymphoid cell cultures. Raltegravir is also active against HIV-2 when Raltegravir is tested in CEMx174 cells, with an IC95 of 6 nM. Raltegravir metabolism occurs primarily through glucuronidation. Drugs that are strong inducers of the glucuronidation enzyme, UGT1A1, significantly reduce Raltegravir co

体内研究(In Vivo)	Raltegravir induces viro-immunological improvement of nonhuman primates with progressing SIVmac251 infection. One non-human primate shows an undetectable viral load following Raltegravir monotherapy. 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: H_2O : 25 mg/mL (51.81 mM; Need ultrasonic)DMSO : 20.83 mg/mL (43.17 mM; ultrasonic and warming and heat to 60°C)配制储备液