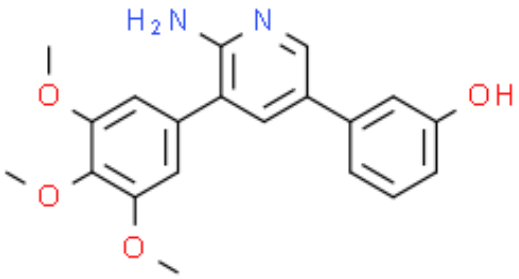
Product Data Sheet

Cas No.:	1431985-92-0	Cat. No:	PL11857
Product Name:	K02288		
Product synonym:	K02288 抑制剂;3-[6-氨基-5-(3,4,5-三甲氧苯基)吡啶-3-基]苯酚		
Chemical name:	K02288		
MF:	C20H20N2O4	FW:	352.3838
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax：	-	Formulation：	-
Solubility :			
SMILES :	O(C([H])([H])[H])C1C(=C(C([H])=C(C=1[H])C1=C(N([H])[H])N=C([H])C(C2C([H])=C([H])C([H])=C(C=2[H])O[H])=C1[H])OC([H])([H])[H])OC([H])([H])[H]		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

K02288是一种有效的骨形态发生蛋白 (BMP) I 型受体抑制剂，抑制 ALK1，ALK2，ALK6 的 IC_{50} 为1.8，1.1，6.4 nM。对 ALK3 和 ALK6 的抑制稍弱，IC_{50}在 5-34 nM 之间。

生物活性	K02288 is a potent bone morphogenetic protein (BMP) type I receptor inhibitor with IC 50 s of 1.8, 1.1, 6.4 nM for ALK1, ALK2 and ALK6, respectively. K02288 shows slightly weaker inhibition against ALK3 and ALK6 with IC 50 s of of 5-34 nM.
IC50 & Target[1][2]	IC50： 1.8 nM (ALK1), 1.1 nM (ALK2), 34.4 nM (ALK3), 6.3 nM (ALK6), 302 nM (ALK4), 321 nM (ALK5)
体外研究(In Vitro)	K02288 reduces a robust phosphorylation of Smad1/5/8 induced by BMP4 stimulation, with an apparent IC50 of 100 nM. K02288 causes near complete inhibition of Smad2 phosphorylation at 0.5 μM. K02288 binds to ALK1 in an ATP-mimetic fashion with two hydrogen bonds to the kinase hinge. K02288 also inhibits BMP9-ALK1 signalling, and induces a hypersprouting phenotype in HUVECs. has not independently confirmed the accuracy of these methods. They are for reference only.
体内研究(In Vivo)	K02288 (1 μM) induces dysfunctional angiogenesis in a chick embryo CAM model. 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 : ≥ 58.6 mg/mL (166.30 mM)配制储备液