Product Name	:	Kisspeptin-10, human (TFA)(374675-21-5,FREE)
Synonyms	:	——
Cat No.	:	M22963
CAS Number	:	
Molecular Formula	:	C63H83N17O14.C2HF3O2
Formula Weight	:	1416.46
Chemical Name	:	——
Description	:	Kisspeptin-10, human TFA is a potent vasoconstrictor and angiogenesisinhibitor.Kisspeptin-10, human TFA acts as a tumor metastasis suppressor via its receptor GPR54.Kisspeptin-10-GPR54 system plays an important role in embryonic kidney development.Kisspeptin-10/GPR54 signaling induces osteoblast differentiation via NFATc4-mediated BMP2 expressionKP-10-treatment significantly increased the expression of osteogenic genes, including mRNA and protein levels of BMP2, in C3H10T1/2 cells.Moreover, KP-10 induced BMP2-luc activity and increased phosphorylation of Smad1/5/9.In addition, NFATc4 specifically mediated KP-10-induced BMP2 gene expression.However, KP-10 treatment did not induce expression of the BMP2 and Runx2 genes in GPR54-/- cells.To examine whether KP-10 induced secretion of BMP2 to the culture medium, we used the conditioned-medium (C.M) of KP-10 treated medium on C3H10T1/2 cells.Dlx5 and Runx2 expressions were higher in GPR54-/- cells treated with C.M than in those treated with KP-10.
Pathway	:	Cell Cycle/DNA Damage
Target	:	GPR
Receptor	:	GPR54
Solubility	:	H2O:4 mg/mL (2.82 mM; Need ultrasonic)
SMILES	:	CC([H])(C[C@](N=C(C/N=C([C@](CC1=CC=CC=C1)(N=C([C@](CO)(N=C([C@](CC(O)=N)(N=C([C@](CC2=CNC3=CC=CC=C23)(N=C([C@](CC(O)=N)(N=C([C@]([H])(CC4=CC=C(C=C4)O)N)O)[H])O)[H])O)[H])O)[H])O)[H])O)[H])\O)O)(C(O)=N[C@@](CCCNC(N)=N)(C(O)=N[C@@](CC5=CC=CC=C5)(C(O)=N)[H])[H])[H])C.O=C(O)C(F)(F)F
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	

1.Son HE, et al. Kisspeptin-10 (KP-10) stimulates osteoblast differentiation through GPR54-mediated regulation of BMP2 expression and activation. Sci Rep. 2018 Feb 1;8(1):2134.