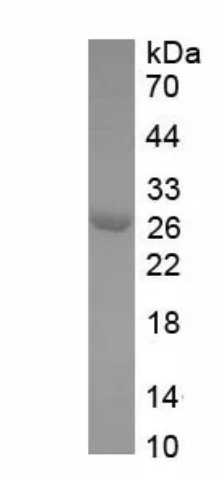
Active Fibroblast Growth Factor 21 (FGF21)

Catalog#:PHH12879

概述（Summary）

纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【His29-Ser209】
Accession #	Q9NSA1
表达宿主（Host）	293F
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	23.1 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Stimulates glucose uptake in differentiated adipocytes via the induction of glucose transporter SLC2A1/GLUT1 expression (but not SLC2A4/GLUT4 expression). Activity requires the presence of KLB. Regulates systemic glucose homeostasis and insulin sensitivity.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

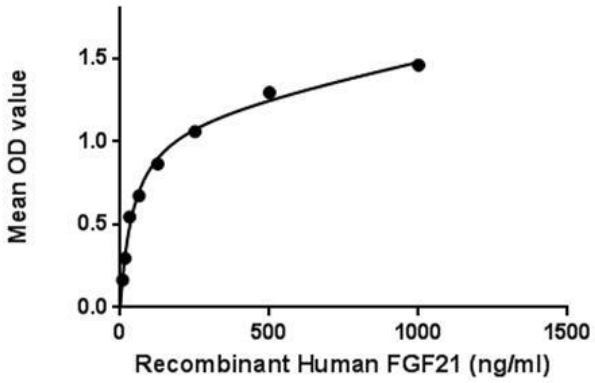


Figure 1. The binding activity of FGF21 with KLb

Fibroblast growth factor 21(FGF21) is a protein that inmammals is encoded by the FGF21 gene. The proteinencoded by this gene is a member of the fibroblastgrowth factor (FGF) family and specifically a memberof the endocrine subfamily which includes FGF23 andFGF15/19. FGF21 is the primary endogenous agonist ofthe FGF21 receptor, which is composed of the co-receptors FGF receptor 1 and β-Klotho. Besides, Klotho Beta (KLb) has been identified as an interactor of FGF21, thus a binding ELISA assay was conducted to detect the interaction of recombinant human FGF21 and recombinant human KLb. Briefly, FGF21 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100µl then transferred to KLb-coated microtiter wells and incubated for 2h at 37℃. Wells were washed with PBST and incubated for 1h with anti-KLb pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50µl stop solution to the wells and read at 450nm immediately. The binding activity of KLb and FGF21 was shown in Figure 1, and this effect was in a dose dependent manner.

注意事项（Note）

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