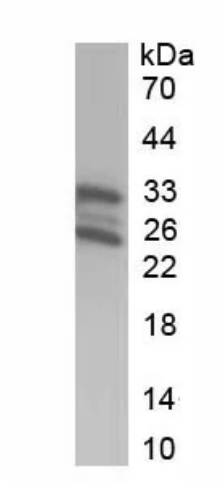
Active Fibroblast Growth Factor 17 (FGF17)

Catalog#:PEH12870

概述（Summary）

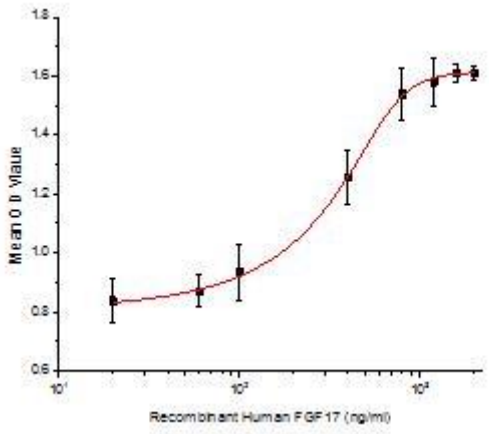
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Thr23-Gly199】
Accession #	O60258
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	24.2 kDa
制剂（Form）	Lyophilized from a 0.2 μm 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）	Plays an important role in the regulation of embryonic development and as signaling molecule in the induction and patterning of the embryonic brain. Required for normal brain development.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）



Fibroblast growth factor 17(FGF17) is a member of the fibroblast growth factorfamily. FGF family members possess broad mitogenicand cell survival activities and are involved in a varietyof biological processes, including embryonicdevelopment cell growth, morphogenesis, tissue repair, tumor growth, andinvasion. A proliferation assay was conducted to detect the bioactivity of recombinant human FGF17 using Balb/c 3T3 cells. Briefly, 3T3 cells were seeded into triplicate wells of 96-well plates at a density of 4,000 cells/well and allowed to attach overnight, then the medium was replaced with various concentrations of FGF17 diluted with serum-free standard DMEM. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8(CCK-8). Briefly, 10 µl of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of Balb/c 3T3 cells after incubation with FGF17 for 48h observed by inverted microscope was shown in Figure1. Cell viability was assessed by CCK-8(Cell Counting Kit-8) assay after incubation with recombinant FGF17 for 48h. The result was shown in Figure2. It was obvious that FGF17 significantly increased cell viability of 3T3 cells. The ED50 of recombinant human FGF17 is 335ng/ml. Figure 2. The dose-effect curve of FGF17 on Balb/c 3T3 cells.



A B

Figure 1. Cell proliferation of Balb/c 3T3 cells after stimulated with FGF17.
(A)3T3 cells cultured in DMEM, stimulated with 1000 ng/ml FGF17 for 48h;
(B)Unstimulated Balb/c 3T3 cells cultured in DMEM for 48h.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.