

APC910Hu02 2mg

**Active Fibroblast Growth Factor 17 (FGF17)** 

Organism Species: Homo sapiens (Human)

Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

#### [PROPERTIES]

Source: Prokaryotic expression.

Host: E. coli

Residues: Thr23~Thr216
Tags: N-terminal His-tag

**Purity: >95%** 

**Endotoxin Level:** <1.0EU per 1μg (determined by the LAL method). **Buffer Formulation:** PBS, pH7.4, containing 0.01% SKL, 5%Trehalose .

Original Concentration: 200µg/mL

Applications: Cell culture; Activity Assays.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 11.2

Predicted Molecular Mass: 26.2kDa

Accurate Molecular Mass: 28kDa as determined by SDS-PAGE reducing conditions.

### [USAGE]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

#### [ STORAGE AND STABILITY ]

**Storage:** Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

#### [SEQUENCE]

TQGENHPSPNFNQYVRDQGAMTDQLSRRQIREYQLYSRTSGKHVQVTGRRISATAEDGNKFAKLIVETD TFGSRVRIKGAESEKYICMNKRGKLIGKPSGKSKDCVFTEIVLENNYTAFQNARHEGWFMAFTRQGRPR QASRSRQNQREAHFIKRLYQGQLPFPNHAEKQKQFEFVGSAPTRRTKRTRRPQPLT

# [ACTIVITY]

Fibroblast growth factor 17 (FGF17) is member Ωf the fibroblast growth factorfamily. FGF family members possess broad mitogenicand cell survival activities and are i nvolved in a variety of biological processes, including embryonic development cell growth, morphogenesis, tissue repair, tumor growth, andinvasion. Fibroblast Growth Factor Receptor 1 (FGFR1) is high affinity receptor for FGF17, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human FGF17 and recombinant human FGFR1. Briefly, biotin-linked FGF17 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to FGFR1-coated microtiter wells and incubated for 1h at 37 °C . Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37  $^{\circ}$ C. Finally, add 50 µl stop solution to the wells and read at 450 nm immediately. The binding activity of recombinant human FGF17 and human FGFR1 was shown in Figure 1, the EC50 for this effect is 0.52 ug/mL.

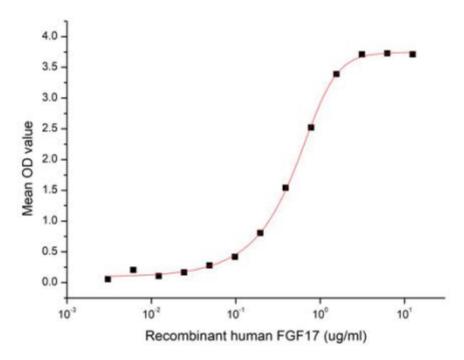


Figure 1. The binding activity of recombinant human FGF17 and human FGFR1

# [ IDENTIFICATION ]

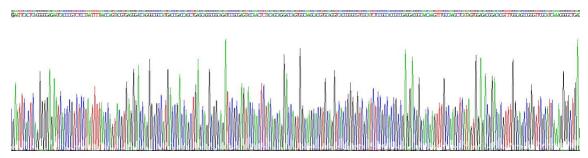


Figure 2. Gene Sequencing (extract)

# Cloud-Clone Corp.

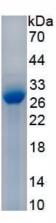


Figure 3. SDS-PAGE

Sample: Active recombinant FGF17, Human

# [ IMPORTANT NOTE ]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.