

## Fibroblast Growth Factor 13 Active Protein | FGF13 active protein

Active Fibroblast Growth Factor 13 (FGF13)

CATALOG #  
**AAA150128**

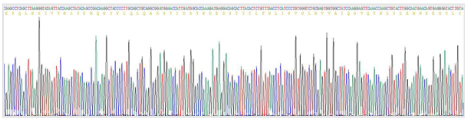
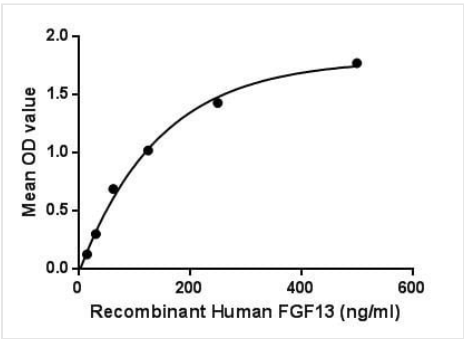
APPLICATIONS  
**Activity Assay, Cell Culture**

### PRODUCT SYNONYMS

Fibroblast Growth Factor 13; Active Fibroblast Growth Factor 13 (FGF13); FHF2; Fibroblast Growth Factor Homologous Factor 2; FGF13 active protein

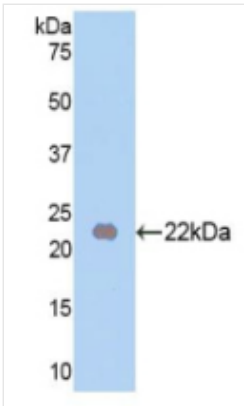
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification                              | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Form/Format                                      | Freeze-dried powder<br>20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                        |
| Sequence Positions                               | Glu63~Thr245                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence Length                                  | 199                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applicable Applications for FGF13 active protein | Activity Assay, Cell Culture                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Species                                          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Tag                                              | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Isoelectric Point                                | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reconstitution                                   | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage                          | Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles.<br>Stability: 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 degree 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. |

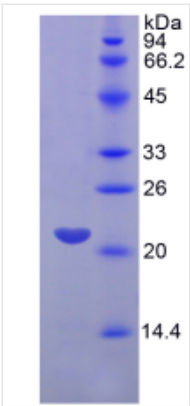


Gene Sequencing  
Figure. Gene Sequencing (Extract)

**Bioactivity**  
Fibroblast growth factor 13 (FGF13) is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. Besides, Prion Protein (PRNP) has been identified as an interactor of FGF13, thus a binding ELISA assay was conducted to detect the interaction of recombinant human FGF13 and recombinant human PRNP. Briefly, FGF13 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100L were then transferred to PRNP-coated microtiter wells and incubated for 2h at 37. Wells were washed with PBST and incubated for 1h with anti-FGF13 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 50uL stop solution to the wells and read at 450nm immediately. The binding activity of FGF13 and PRNP was shown in Figure 1, and this effect was in a dose dependent manner. Figure. The binding activity of FGF13 with PRNP.



WB (Western Blot)  
Figure. Western Blot



SDS-PAGE  
Figure. SDS-PAGE

ADDITIONAL INFORMATION

|                                                    |          |
|----------------------------------------------------|----------|
| Product Categories/Family for FGF13 active protein | Cytokine |
|----------------------------------------------------|----------|

NCBI AND UNIPROT INFORMATION

|                           |                                                                     |
|---------------------------|---------------------------------------------------------------------|
| NCBI GI #                 | 213417606                                                           |
| NCBI GeneID               | 2258                                                                |
| NCBI Accession #          | NP_001132970.1                                                      |
| NCBI GenBank Nucleotide # | NP_001132970.1                                                      |
| UniProt Accession #       | Q92913                                                              |
| Molecular Weight          | Predicted Molecular Mass: 21.8kDa<br>Accurate Molecular Mass: 22kDa |

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI Official Full Name          | fibroblast growth factor 13 isoform 4 |
| NCBI Official Synonym Full Names | fibroblast growth factor 13           |
| NCBI Official Symbol             | FGF13                                 |
| NCBI Official Synonym Symbols    | FGF2; FHF2; FHF-2; FGF-13; LINC00889  |
| NCBI Protein Information         | fibroblast growth factor 13           |
| UniProt Protein Name             | Fibroblast growth factor 13           |
| UniProt Gene Name                | <b>FGF13</b>                          |
| UniProt Synonym Gene Names       | FHF2; FGF-13; FHF-2                   |
| UniProt Entry Name               | FGF13_HUMAN                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/fgf13-active-protein/fibroblast-growth-factor-13/150128>