

## FGF21 active protein

FGF21 Protein, Human, Recombinant (His Tag)

CATALOG #  
**AAA257950**

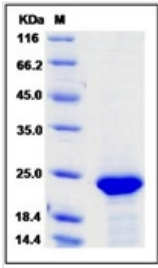
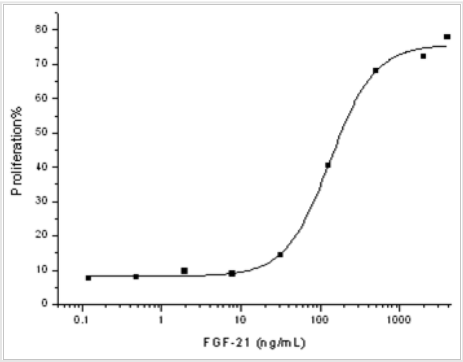
HOST  
**E Coli**

### PRODUCT SYNONYMS

FGF21; FGF21 Protein; Human; Recombinant (His Tag); Human FGF21 Protein (His Tag); UNQ3115/PRO10196 Protein; fibroblast growth factor 21; FGF21 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purity/Purification     | >95% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form/Format             | Lyophilized from 50mM Tris, 10% glycerol, 0.05% Brij 35, pH8.0. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.                                                                                                                                                                                                                                                            |
| Sequence                | His29-Ser2 09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Species                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Activity                | Measured in a cell proliferation assay using NIH-3T3 mouse embryonic fibroblast cells. The ED50 for this effect is typically 0.1-1ug/mL in the presence of 2.5ug/mL of rmKlotho beta.                                                                                                                                                                                                                                                                                                                    |
| Predicted N Terminal    | Met                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Tag                     | N-His                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Protein Construction    | A DNA sequence encoding the mature form of human FGF21 (NP_061986.1)(His 29-Ser 209) was expressed, with a polyhistide tag at the N-terminus.                                                                                                                                                                                                                                                                                                                                                            |
| Reconstitution          | A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage | Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.<br>In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid.<br>They are shipped out with blue ice. |



SDS-PAGE

Application Data

Measured in a cell proliferation assay using NIH-3T3 mouse embryonic fibroblast cells. The ED50 for this effect is typically 0.1--1 ug/mL in the presence of 2.5 ug/mL of rmKlotho beta.

ADDITIONAL INFORMATION

Related Product Information for FGF21 active protein

Background: Fibroblast growth factor 21 (FGF21) 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. FGF-21 has a hydrophobic amino terminus, which is a typical signal sequence, and appears to be a secreted protein. The metabolic regulator fibroblast growth factor 21 (FGF21) has antidiabetic properties in animal models of diabetes and obesity. FGF21 is a novel adipokine associated with obesity-related metabolic complications in humans. The paradoxical increase of serum FGF21 in obese individuals, which may be explained by a compensatory response or resistance to FGF21, warrants further investigation. FGF-21, which we have identified as a novel metabolic factor, exhibits the therapeutic characteristics necessary for an effective treatment of diabetes.

References

Zhang X, et al. (2008) Serum FGF21 levels are increased in obesity and are independently associated with the metabolic syndrome in humans. Diabetes. 57(5): 1246-53. LundaŹsen T, et al. (2007) PPARalpha is a key regulator of hepatic FGF21. Biochem Biophys Res Commun. 360(2): 437-40. Kharitononkov A, et al. (2005) FGF-21 as a novel metabolic regulator. J Clin Invest. 115(6): 1627-35.

NCBI AND UNIPROT INFORMATION

|                                  |                                     |
|----------------------------------|-------------------------------------|
| NCBI GI #                        | 9506597                             |
| NCBI GeneID                      | 26291                               |
| NCBI Accession #                 | NP_061986.1                         |
| NCBI GenBank Nucleotide #        | NM_019113.2                         |
| UniProt Accession #              | Q9NSA1; Q8N683                      |
| Molecular Weight                 | 22,300 Da                           |
| NCBI Official Full Name          | fibroblast growth factor 21         |
| NCBI Official Synonym Full Names | fibroblast growth factor 21         |
| NCBI Official Symbol             | FGF21                               |
| NCBI Protein Information         | fibroblast growth factor 21; FGF-21 |
| UniProt Protein Name             | Fibroblast growth factor 21         |
| UniProt Gene Name                | FGF21                               |
| UniProt Synonym Gene Names       | FGF-21                              |
| UniProt Entry Name               | FGF21_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/e-coli-active-protein/fgf21/257950>