

RP00064

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# Recombinant Human FGF-12 Protein

Catalog No.: RP00064

Recombinant

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 2257    | P61328     |

### Tags

C-His

### Synonyms

FGF12;EIEE47;FGF12B;FHF1

## Background

The protein 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. This growth factor lacks the N-terminal signal sequence present in most of the FGF family members, but it contains clusters of basic residues that have been demonstrated to act as a nuclear localization signal. When transfected into mammalian cells, this protein accumulated in the nucleus, but was not secreted.

## Basic Information

### Description

Recombinant Human FGF-12 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Thr181) of human FGF-12 (Accession #NP\_004104.3) fused with a 6×His tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant human FGFR4 at 5 µg/mL (100 µL/well) can bind recombinant human FGF12 with a linear range of 35-100 ng/mL.

### Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Product Information

| Source         | Purification       |
|----------------|--------------------|
| <i>E. coli</i> | > 97% by SDS-PAGE. |

### Endotoxin

< 1.0 EU/µg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, 1mM DTT, 300mM NaCl, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

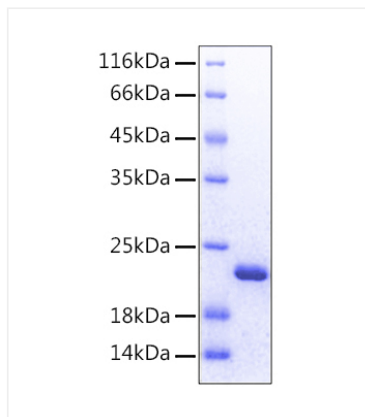
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

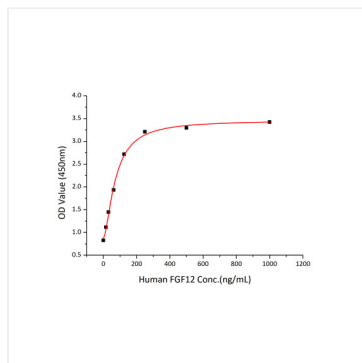


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## Validation Data



Recombinant Human FGF-12 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at approximately 20 kDa.



Immobilized recombinant human FGFR4 at 5  $\mu\text{g/mL}$  (100  $\mu\text{L/well}$ ) can bind recombinant human FGF12 with a linear range of 35-100 ng/mL.