

# Recombinant human FGF-12 protein

Catalog Number: FGF0902

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-181aa

### UniProt No.

P61328

### NCBI Accession No.

AAH22524.1

### Alternative Names

Fibroblast growth factor 12, FHF1, FGF12B, Fibroblast growth factor 12, FGF12, Fibroblast growth factor 12 FGF 12, FGF 12B, FHF 1, FHF1, Fibroblast growth factor 12B, Fibroblast growth factor FGF 12b, Fibroblast growth factor homologous factor 1, Myocyte activating factor.

## PRODUCT SPECIFICATION

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### Molecular Weight

22.6 kDa (201aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 10% glycerol, 1mM DTT, 2mM EDTA

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

FGF12 (Fibroblast growth factor 12) is a member of the FGF superfamily of molecules which currently stands at 22 members. The FGF family members possess broad mitogenic and cell survival activities, and are involved in a

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variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. FGF12 binds to IB2 (islet brain-2), a cellular kinase scaffold, and voltage gated sodium channels and also plays an important role in intracellular signaling and ion exchange. Recombinant human FGF12 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

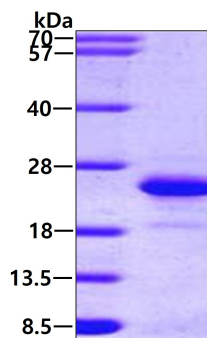
MGSSHHHHHH SGLVPRGSH MESKEPQLKG IVTRLFSQQG YFLQMHPDGT IDGTDKSD YTLFNLIPVG LRVVAIQGVK  
ASLYVAMNGE GYLYSSDVFT PECKFKESVF ENYYVIYSST LYRQQESGRA WFLGLNKEGQ IMKGNRVKKT KPSSHFVPPK  
IEVCMYREQS LHEIGEKQGR SRKSSGTPTM NKGKVVNQDS T

## General References

Hubert T., et al. (2008). *J Comp Neurol.* 507(4):1588-601  
Nakayama F., et al. (2008). *J Radiat Res.* 49(5):491-501

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.