Recombinant human FGF-12 protein

Catalog Number: FGF0902

PRODUCT INFORMATION

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

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

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

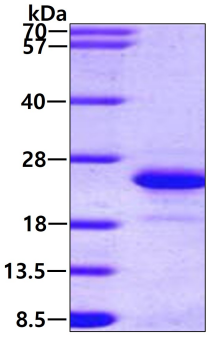
MGSSHHHHHH SSGLVPRGSH MESKEPQLKG IVTRLFSQQG YFLQMHPDGT IDGTKDENSD YTLFNLIPVG LRVVAIQGVK ASLYVAMNGE GYLYSSDVFT PECKFKESVF ENYYVIYSST LYRQQESGRA WFLGLNKEGQ IMKGNRVKKT KPSSHFVPKP IEVCMYREQS LHEIGEKQGR SRKSSGTPTM NGGKVVNQDS T

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.