

Recombinant human FGF basic/FGF-2 protein

Catalog Number: ATGP4117

PRODUCT INFORMATION

Expression system

E.coli

Domain

143-288aa

UniProt No.

P09038

NCBI Accession No.

NP_001997.5

Alternative Names

Fibroblast growth factor 2, BFGF, FGFB, HBGF-2, FGF2, FGF-2

PRODUCT SPECIFICATION

Molecular Weight

16.5 kDa (147aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 50mM Tris-HCl buffer (pH 8.0)

Purity

> 95% by SDS-PAGE

Endotoxin level

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

Biological Activity

Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells in the presence of 10 ug/ml of heparin. The ED50 range \leq 0.2 ng/ml.

Tag

Non-Tagged

Application

SDS-PAGE, Bioactivity

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

Recombinant human FGF basic/FGF-2 protein

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Description

Fibroblast growth factor 2 (FGF2) is a member of the FGF family that binds heparin and plays important roles in morphogenic, neurotrophic and angiogenic processes. FGF2 possess diverse biological functions, such as neuron differentiation, embryonic development and differentiation, modulation of angiogenesis, and wound healing. Recombinant human FGF2 was expressed in *E. coli* and purified by conventional chromatography techniques.

Amino acid Sequence

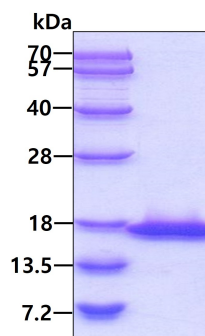
MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAE E RGVVSIGVC ANRYLAMKED
GRLASKCVT DECFFFERLE SNNYNTYRSR KYTSWYVALK RTGQYKLGSK TGPGQKAILF LPMSAKS

General References

- Nakayama T., et al. (2007) *Blood*. 109(2):1363-72.
- A E Eriksson., et al. (1991) *PNAS*. 88:3441-3445
- Raines, E.W. et al. (1985) *Methods Enzymol*. 109:749-73

DATA

SDS-PAGE



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

Biological Activity

Human FGF-2 stimulates cell proliferation of the Balb/3T3 mouse embryonic fibroblast cells in the presence of 10 ug/ml of heparin. The ED50 range \leq to 0.2 ng/ml.

