

Recombinant human FGF acidic/FGF-1 protein

Catalog Number: ATGP3788

PRODUCT INFORMATION

Expression system

E.coli

Domain

16-155aa

UniProt No.

P05230

NCBI Accession No.

NP_000791

Alternative Names

Acidic Fibroblast Growth Factor, Fibroblast growth factor 1, Acidic fibroblast growth factor, aFGF, Endothelial cell growth factor, ECGF, Heparin-binding growth factor 1, HBGF-1, FGFA, ECGFA, ECGF-beta, FGF-alpha, GLIO703, ECGFB

PRODUCT SPECIFICATION

Molecular Weight

15.9 kDa (141aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.0) containing 100mM NaCl

Purity

> 95% by SDS-PAGE

Endotoxin level

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

Tag

Non-Tagged

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

Acidic fibroblast growth factor (aFGF) belongs to the fibroblast growth factor family. It is a potent mitogenic agent. aFGF has been detected in large amounts in the brain. Other cells known to express FGF acidic include

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hepatocytes, vascular smooth muscle cells, CNS neurons, skeletal muscle cells, fibroblasts, keratinocytes, endothelial cells, intestinal columnar epithelium cells and pituitary basophils and acidophils. The growth factor acts through activation of specific cell-surface receptors leading to intracellular tyrosine phosphorylation cascade. Recombinant human aFGF was overexpressed in E. coli and purified by conventional chromatography.

Amino acid Sequence

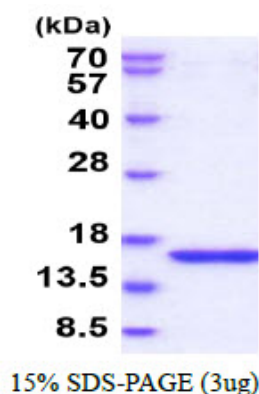
MFNLPPGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SVGEVYIKST ETGQYLAMDT DGLLYGSQTP
NEECLFLERL EENHYNTYIS KKHAEKNWFV GLKKNQSGCKR GPRTHYGQKA ILFLPLPVSS D

General References

Jaye M. et al., (1986) Science. 233, 541-544.
Mergia A. et al., (1989) Biochem. Biophys. Res. Commun. 164, 1121-1129.
Stauber DJ. et al., (2000) Proc. Natl. Acad. Sci. U.S.A. 97, 49-54.

DATA

SDS-PAGE



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