

Human bFGF / FGF2 Protein

Catalog Number: 10014-HNAE



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

BFGF; FGF-2; FGFB; HBGF-2

Protein Construction:

A DNA sequence encoding the mature form of human bFGF (NP_001997.5) (Pro 143-Ser 288) was expressed, with an additional Met at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

Measured in a cell proliferation assay using BALB/c 3T3 mouse embryonic fibroblasts. The ED₅₀ for this effect is typically 0.02-0.1 ng/ml.

Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human bFGF consists of 147 amino acids and predicts a molecular mass of 16.5 kDa.

Formulation:

Lyophilized from sterile 20mM Tris, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

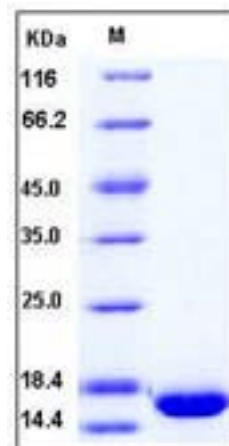
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Basic fibroblast growth factor (bFGF), also known as FGF2, is a member of the fibroblast growth factor (FGF) family. It is a highly specific chemotactic and mitogenic factor for many cell types, appears to be involved in remodeling damaged tissue, such as ulcer healing, vascular repair, traumatic brain injury (TBI). bFGF is a critical component of human embryonic stem cell culture medium. In addition, bFGF protein is a heparin-binding cationic protein involved in a variety of pathological conditions including angiogenesis and solid tumour growth. Thus, bFGF is regarded as a target for cancers chemopreventive and therapeutic strategies. bFGF/FGF2 Protein & Antibody Products

References

1. Takayama S, *et al.* (2001) Periodontal regeneration by FGF-2 (bFGF) in primate models. *J Dent Res.* 80(12): 2075-9.
2. Niu YJ, *et al.* (2004) Therapeutic effect of bFGF on retina ischemia-reperfusion injury. *Chin Med J (Engl).* 117(2): 252-7.
3. Zhang Y, *et al.* (2004) Expression of aFGF, bFGF, and FGFR1 in ovarian epithelial neoplasm. *Chin Med J (Engl).* 117(4): 601-3.

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