

CHASELECTION

Recombinant Human fibroblast growth factor basic/bFGF

Catalog Number: CYG024F0XXX、CY024F0XXX

Synonym: FGF-2, HBGF-2, Prostatropin

Source: *E. coli*

Structure:

The protein carries no tag.

Assession Number: P09038 Gene ID: 2247

AA Sequence:

MPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFL
RIHPDGRVDGVREKSDPHIKLQLQAEERGVSIIK
GVCANRYLAMKEDGRLLASKCVTDECFFFERL
ESNNYNTYRSRKYTSWYVALKRTGQYKLGSKT
GPGQKAILFLPMSAKS

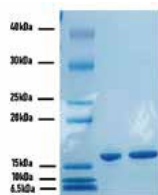
Molecular Weight :

Around 16.5 kDa, 147 Amino Acid

Purity:

≥95 % as determined by SDS-PAGE & HPLC.

SDS-PAGE



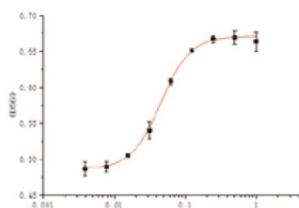
2 μg/lane of Recombinant Human bFGF was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining, showing R band approximately at 17kDa.

Endotoxin: <0.1 EU/μg

Formulation:

Lyophilized from a 0.2μm filtered solution concentrated solution in 20mM Tris,150mM NaCl, 5% trehalose, 0.2‰ TWEEN-20, pH7.6

Biological Activity:



The ED₅₀ as determined by a cell proliferation assay using murine Balb/c 3T3 cells is ≤0.05 ng/mL, corresponding to a specific activity of ≥ 1.0 × 10⁷

units/mg.

Reconstitution:

Before use this product, please read the direction below carefully.

1. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom.
2. Reconstitute in a sterile aqueous buffer to an appropriate concentration.
3. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Shipping & Storage:

The product is shipped with blue ice. Upon receipt, store it immediately at the temperature recommended. For long term storage, the product should be stored ≤ -20 °C.

Please avoid repeated freeze-thaw cycles after reconstitution.

1. At least 24 months from date of receipt, ≤ -20 °C as supplied;
2. 1 month, 2 to 8 °C under sterile conditions after reconstitution;
3. 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Introduction:

bFGF is a growth factor and signaling protein encoded by the FGF2 gene. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. In normal tissue, bFGF is present in basement membranes and in the subendothelial extracellular matrix of blood vessels. bFGF is a non-glycosylated, heparin-binding growth factor that is expressed in the brain, pituitary, kidney, retina, bone, testis, adrenal gland, liver, monocytes, epithelial cells and endothelial cells.

