



Recombinant human FGF-2 (basic) 146 aa

20180611BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-411
Size:	50 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	2247
Synonyms:	FGF2; BFGF; FGFB; HBGF-2; basic Fibroblast growth factor (bFGF); Heparin binding growth factor-3, Prostatropin

FGF-basic is one of 23 known members of the FGF family. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-basic 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. FGF-basic signals through FGFR 1b, 1c, 2c, 3c and 4. Recombinant Human FGF-basic (146 a.a.) is a 16.4 kDa protein consisting of 146 amino acid residues.

Sequence

```
PALPEDGGSG AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV  
DGVREKSDPH IKLQLQAEER GVVSIGVCA NRYLAMKEDG  
RLASKCVTD ECVFFERLES NNYNTYRSRK YTSWYVALKR  
TGQYKLGSKT GPGQKAILFL PMSAKS
```

Database References

Protein RefSeq:	NP_001997.5
Uniprot ID:	P09038
mRNA RefSeq:	NM_002006.4

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	146
MW:	16.4 kDa

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

Reconstitution: Centrifuge vial prior to opening. Reconstitute in 5mM Tris, pH 7.6, to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: The ED₅₀ was determined by a cell proliferation assay using balb/c 3T3 cells is ≤ 0.05 ng/ml, corresponding to a specific activity of ≥ 2 x 10⁷ units/mg.