



# Recombinant human FGF-2 (basic) 146 aa

20190724BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>100-411S</b>
Size:	10 µg
Lot. No.:	According to product label

### Sequence

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

### Database References

<b>Protein RefSeq:</b>	NP_001997.5
<b>Uniprot ID:</b>	P09038
<b>mRNA RefSeq:</b>	NM_002006.4

## Scientific Background

<b>Gene-ID (NCBI):</b>	2247
<b>Synonyms:</b>	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.

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	Lyophilized (5mM Tris, pH 7.6 + 150mM NaCl)
<b>Length (aa):</b>	146
<b>MW:</b>	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 ED<sub>50</sub> 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 10<sup>7</sup> units/mg.