

Human FGF basic / FGF2 (154 amino acids) - Purified

Alternate names:	BFGF, FGFB, Fibroblast growth factor 2 (basic), HBGF-2, HBGF2, Heparin-binding growth factor 2
Catalog No.:	PA055X
Quantity:	50 µg
Background:	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.
Uniprot ID:	P09038
NCBI:	NP_001997.5
GeneID:	2247
Species:	Human
Source:	E. coli
Format:	State: Lyophilized (0.2µ Sterile filtered) purified protein Purity: >95% pure by SDS-PAGE and HPLC analyses Buffer System: 5 mM Tris, pH 7.6, containing 150 mM NaCl Endotoxin Level: < 0.1 ng per µg (1EU/µg) Reconstitution: Restore in 5 mM Tris, pH 7.6, to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for one week or at -20°C for future use.
Description:	Recombinant human FGF-basic is a 17.2 kDa protein consisting of 154 amino acid residues. AA Sequence: AAGSITTLPA LPEDGGSGAF PPGHFKDPKR LYCKNGGFFL RIHPDGRVDG VREKSDPHIK LQLQAEERGVS VSIKGVCANR YLAMKEDGRL LASKCVTDEC FFERLESNN YNTYRSRKYT SWYVALKRTG QYKLGSKTGP GQKAILFLPM SAKS Biological Activity: Assay 1: The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is ≤ 0.5 ng/ml, corresponding to a specific activity of ≥ 2 x 10⁶ units/mg. Assay 2: The ED50 was determined by a cell proliferation assay using balb/c 3T3 cells is ≤ 0.1 ng/ml, corresponding to a specific activity of ≥ 1 x 10⁷ units/mg. Molecular weight: 17.2 kDa (154 amino acids)
Add. Information:	Centrifuge the vial prior to opening.

Storage:

Prior to reconstitution store at 2-8°C for 6 months, at RT for one month or at -20°C to -80°C for longer.
Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.