

Product datasheet for **TP750278**

FGF2 (NM_001361665) Human Recombinant Protein

Product data:

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|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type: | Recombinant Proteins |
| Description: | Lyophilized purified recombinant protein of human Heat Stable Fibroblast Growth Factor-basic (FGF2), transcript variant 1b, full-length, mutant (Ala2Gly, His59Tyr, Cys78Ser, Ala84Cys, Cys96Ser), tag free, 100ug |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | 1 MGAGSITLTP ALPEDGGSGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPYI 61 KLQLQAEERG VVSIKGVSAN RYLCMKEDGR LLASKSVTDE CFFFERLESN NYNTYRSRKY 121 TSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS |
| Tag: | Tag Free |
| Predicted MW: | 17.3 kDa |
| Purity: | > 90% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | Lyophilized from a 0.2 µm filtered solution of 10 mM Tris-HCl, pH7.5, 150 mM NaCl, 8% trehalose |
| Bioactivity: | Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.10-0.30ng/mL. |
| Endotoxin: | < 0.1 EU per 1 µg of the protein by the LAL |
| Reconstitution Method: | It is not recommended to reconstitute to a concentration less than 200 µg/mL in ddH ₂ O. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Stability: | Stored at -20 to -70°C for 1 year and avoid repeated freeze-thaw cycles after receipt; After reconstitution, the protein can be stored longer at -20 to -70°C, with aliquoting for single use recommended to prevent repeated freeze-thaw. |
| RefSeq: | NP_001348594 |
| Locus ID: | 2247 |



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UniProt ID: [P09038-2](#)

Cytogenetics: 4q28.1

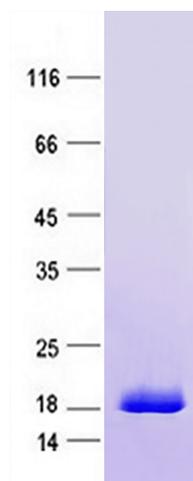
Synonyms: BFGF; FGF-2; FGFB; HBGF-2

Summary: The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF. [provided by RefSeq, Jul 2008]

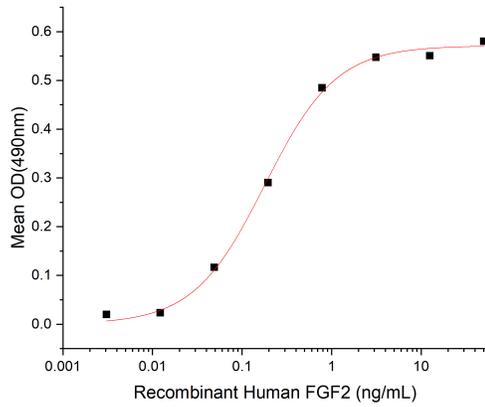
Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton

Product images:



Coomassie blue staining of purified FGF2 protein (Cat #TP750278). The protein was produced from E.coli.



Measured in a cell proliferation assay using 3T3 fibroblast cells. The ED50 for this effect is 0.13-0.20ng/mL.