

Recombinant Human Fibroblast Growth Factor 20

Cat. No. FGF20-178H **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | This recombinant Human FGF-20 is a 23.2 kDa protein containing 209 amino acid residues and it was expressed in <i>E. Coli</i> . |
| Species | Human |
| Source | E.coli |
| Description | Fibroblast Growth Factor-20 (FGF-20). The FGF family plays important roles in morphogenesis, cellular differentiation, angiogenesis, tissue remodeling, inflammation and oncogenesis. Fibroblast Growth Factor-20 (FGF-20) is a newly discovered neurotrophic factor belonging to the FGF family. FGF-20 is most similar to FGF-9 and FGF-16. |
| Supplied | Sterile filtered and the the protein was lyophilized from 20mM Tris, pH7.6 & 1.5M NaCl (no additives). |
| Purity | >97% by SDS-Page and HPLC analyses. Endotoxin level is less than 0.1ng per ug (1EU/ug) of FGF-20. |
| Reconstitution | The lyophilized FGF-20 should be reconstituted in 20mM TRIS, pH7.6 or DI water to a concentration of 0.1-1.0mg/ml. Allow to set at least 30 minutes at 4°C, tighten cap and rotate to reconstitute any material on sides of vial. If desired, you can centrifuge at 1000 rpm for 1 minute to concentrate volume in bottom of vial. This solution can be diluted into water or other buffered solutions and stored at 4°C for up to 1 week or stored at - |

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20°C for future use.

Note

If this material is not to be used for coating or labeling (or other applications requiring carrier free material), the addition of 0.1% BSA to dilution buffers or dilution in sterile culture media is recommended to enhance stability and minimize absorption to vial. Ideally, maintain concentration greater than 10ug/ml.

Reactivity

The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is < 10 ng/ml, corresponding to a specific activity of > 1 x 10⁵units/mg.

Amino Acid Sequence

PLAEVGGFLG GLEGLGQQVG SHFLLPPAGE RPPLLGERRS AAERSARGGP
GAAQLAHLHG ILRRRQLYCR TGFHLQILPD GSVQGTRQDH SLFGILEFIS
VAVGLVSIRG VDSGLYLG MN DKGELYGSEK LTSECIFREQ FEENWYNTYS
SNIYKHGDTG RRYFVALNKD GTPRDGARSK RHQKFTHFLP RPVDPERVPE
LYKDLLMYT VPEEPEDLRG HLESDFMSSP LETDSMDPFG LVTGLEAVRS PSFEK

Storage

The lyophilized powder is stable at room temperature for a few weeks but it is best stored desiccated at -20°C. Reconstituted human FGF-20 should be stored in working aliquots at -20°C.

GENE INFORMATION

Gene Name

[FGF20 fibroblast growth factor 20 \[Homo sapiens \]](#)

Synonyms

FGF20; fibroblast growth factor 20; FGF-20

Gene ID

[26281](#)

mRNA Refseq

[NM_019851](#)

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|----------------------------|--|
| Protein Refseq | NP_062825 |
| MIM | 605558 |
| UniProt ID | Q9NP95 |
| Chromosome Location | 8p22 |
| Pathway | MAPK signaling pathway; Melanoma; Melanoma; Pathways in cancer; Regulation of actin cytoskeleton |
| Function | growth factor activity |

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