

## Active Recombinant Human Fibroblast Growth Factor 3

**Cat. No.** FGF3-518H    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant Human FGF3 protein was expressed in E. coli. Asp28-Arg212, with an N-terminal Met.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Length</b>      | 28-212 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>         | FGF3 belongs to the large FGF family which has at least 23 members. All FGF family members are heparin-binding growth factors with a core 120 amino acid (aa) FGF domain that allows for a common tertiary structure. FGFs are expressed during embryonic development and in restricted adult tissues. They act on cells of mesodermal and neuroectodermal origin to regulate diverse physiologic functions including angiogenesis, cell growth, pattern formation, embryonic development, metabolic regulation, cell migration, neurotrophic effects and tissue repair. Signaling receptors for FGFs are type I transmembrane receptor tyrosine kinases belonging to the Ig superfamily. |
| <b>Form</b>                | Lyophilized from a 0.2 µm filtered solution in MOPS, Na <sub>2</sub> SO <sub>4</sub> and EDTA with BSA as a carrier protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>N-terminal Sequence</b> | Met                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Weight</b>    | 21.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Activity</b>        | Measured in a cell proliferation assay using NR6R3T3 mouse fibroblasts. The ED50 for this effect is typically 0.02-0.1 µg/mL in the presence of 1 µg/mL of heparin.                                                                                                  |
| <b>Endotoxin Level</b> | <1.0 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                   |
| <b>Purity</b>          | >97%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                                                                          |
| <b>Reconstitution</b>  | Reconstitute at 10 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.                                                                                                                                                                      |
| <b>Storage</b>         | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | FGF3 fibroblast growth factor 3 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Official Symbol</b> | FGF3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>        | FGF3; fibroblast growth factor 3; fibroblast growth factor 3 (murine mammary tumor virus integration site (v int 2) oncogene homolog); INT2; HBGF 3; INT 2 proto-oncogene protein; oncogene INT2; VINT2 murine mammary tumor virus integration site oncogene homolog; INT2 proto-oncogene protein precursor; FGF-3; OTTHUMP00000237184; proto-oncogene Int-2; INT-2 proto-oncogene protein; heparin-binding growth factor 3; murine mammary tumor virus integration site 2, mouse; V-INT2 murine mammary tumor virus integration site onc |
| <b>Gene ID</b>         | 2248                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>     | NM_005247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | NP_005238                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>                 | 164950                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | P11487                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 11q13                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | Downstream signaling of activated FGFR; FGFRligand binding and activation; FGFR1 ligand binding and activation; FRS2-mediated cascade; IRS-mediated signalling; IRS-related events; Insulin receptorsignalling cascade; MAPK signaling pathway; Melanoma; Negative regulation ofFGFR signaling; PI-3K cascade; Pathwaysin cancer; Phospholipase C-mediated cascade; Regulation of Actin Cytoskeleton;SHC-mediated cascade; Signaling by FGFR |
| <b>Function</b>            | growth factor activity; proteinbinding                                                                                                                                                                                                                                                                                                                                                                                                       |

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