

# Recombinant Human Fibroblast Growth Factor Receptor 3

**Cat. No.** FGFR3-5003H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human FGFR3 was expressed in Insect cells and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | Fibroblast Growth Factors (FGFs) comprise a family of at least eighteen structurally related proteins that are involved in a multitude of physiological and pathological cellular processes, including cell growth, differentiation, angiogenesis, wound healing and tumorigenesis. The biological activities of the FGFs are mediated by a family of type I transmembrane tyrosine kinases which undergo dimerization and autophosphorylation after ligand binding. Four distinct genes encoding closely related FGF receptors, FGFR-1 to -4 are known. |
| <b>Form</b>             | Supplied as a lyophilized powder with no preservative. Reconstitute in sterile water to a concentration > 0.05mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | >90% pure by SDS PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 170 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>     | Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin Levels</b>    | <0.1 ng per g of sFGF-R3a                                                                                                                                                                                                                          |
| <b>Storage</b>             | Store at -70 deg C until reconstitution. Following reconstitution product should be aliquoted and frozen at -20 deg C. Avoid repeated freeze/thaw cycles.                                                                                          |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>           | FGFR3 fibroblast growth factor receptor 3 [ Homo sapiens ]                                                                                                                                                                                         |
| <b>Official Symbol</b>     | FGFR3                                                                                                                                                                                                                                              |
| <b>Synonyms</b>            | FGFR3; fibroblast growth factor receptor 3; ACH; CEK2; JTK4; CD333; HSGFR3EX; OTTHUMP00000149958; OTTHUMP00000149959; tyrosine kinase JTK4; hydroxyaryl-protein kinase; achondroplasia, thanatophoric dwarfism; EC 2.7.10.1; FGFR-3; CD333 antigen |
| <b>Gene ID</b>             | 2261                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_000142                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>      | NP_000133                                                                                                                                                                                                                                          |
| <b>MIM</b>                 | 134934                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>          | P22607                                                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 4p16.3                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | Bladder cancer; Endocytosis; MAPK signaling pathway; Pathways in cancer; Regulation of actin cytoskeleton; Signaling by FGFR                                                                                                                       |

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**Function**

ATP binding; fibroblast growth factor receptor activity; identical protein binding; nucleotide binding; receptor activity; transferase activity

**Rendering of 1ry7**

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