

Active Recombinant Human FGFR1 Protein (592 aa), Fc-tagged

Cat. No. FGFR1-142F **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human FGFR-1 alpha(IIIc)-Fc (rhFGFR-1 alpha(IIIc)-Fc) produced in Sf9 is a single glycosylated polypeptide chain containing 592 amino acids. A fully biologically active molecule, rhFGFR-1 alpha(IIIc)-Fc has a molecular mass of around 90 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.

Species Human

Source Sf9 Cells

ProteinLength 592

Description Fibroblast Growth Factor Receptor-1 (FGFR-1) is a transmembrane tyrosine kinase receptor belonging to the FGFR family. FGFR family has 4 members, FGFR-1 to FGFR-4, and they all have similar structural characteristics with 3 extracellular immunoglobulin-like (Ig) domains. FGFRs bind to FGFs with the second and third Ig domains, and complex with heparin sulfate when binding. The binding to FGF induces the dimerization of FGFR and the phosphorylations of the intracellular tyrosines. Furthermore, the phosphorylated FGFR activates downstream signaling pathways, including STAT/JAK, RAS/MAPK, and PI3 K/AKT. Particularly, the signaling of FGFR-1 is stronger than that of FGFR-2, and sustains longer than that of FGFR-4. FGFR-1 is involved in the breast cancer: the patients with the FGFR-1 amplification are more likely to develop distant metastases, and the amplification of FGFR-1 is significantly associated with a shorter overall survival.

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Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 2 ng/mL, measured by the neutralization assay using 3T3 cells in presence of 4 ng/mL of human FGF-acidic, corresponding to a specific activity of > 5 × 10 ⁵ units/mg.
Molecular Mass	~90 kDa, observed by reducing SDS-PAGE.
AA Sequence	RPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWLRDGVQLAES NRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSSEDDDDDD DSSSEEKETDNTKPNPVAPYWTSPEKMEKKLHAVPAAKTVKFKCPSSGTPNPTLRW LKNGKEFKPDHRIGGYKVRATWSIIMDSVVP SDKGN YTCIVENEYGSINHTYQLDV VERSPHRPILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKIGPDN LPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHHSAWLTVLEA LEERPAVMTSPLYLEGGSGSGSPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKD TLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSV LTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQ QGNVFSCSVMHEALHNHYTQKSLSLSPGK
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant human FGFR-1 alpha(IIIc)-Fc (rhFGFR-1 alpha(IIIc)-Fc) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhFGFR-1 alpha(IIIc)-Fc remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.

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Reconstitution Reconstituted in ddH₂O at 100 µg/mL.

GENE INFORMATION

Gene Name [FGFR1 fibroblast growth factor receptor 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [FGFR1](#)

Synonyms FGFR1; fibroblast growth factor receptor 1; CEK; FLG; HH2; OGD; ECCL; FLT2; KAL2; BFGFR; CD331; FGFBR; FLT-2; HBGFR; N-SAM; FGFR-1; HRTFDS; bFGF-R-1; fibroblast growth factor receptor 1; FGFR1/PLAG1 fusion; FMS-like tyrosine kinase 2; basic fibroblast growth factor receptor 1; fms-related tyrosine kinase 2; heparin-binding growth factor receptor; hydroxyaryl-protein kinase; proto-oncogene c-Fgr; EC 2.7.10.1

Gene ID [2260](#)

mRNA Refseq [NM_023110](#)

Protein Refseq [NP_075598](#)

MIM [136350](#)

UniProt ID [P11362](#)

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