Fgfr4
Recombinant Mouse FGF-Receptor 4 / CD334 (His & Fc Tag)

Catalog No.	CRM569A-HisFc CRM569B-HisFc	**Quantity:**	50 µg 100 µg

Alternate Names: Fibroblast growth factor receptor 4, FGFR-4, Protein-tyrosine kinase receptor MPK-11, CD334

Description: Fibroblast growth factor receptor 4 (FGF-R4) is a member of the highly conserved fibroblast growth factor receptor family. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of FGF-R4 interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. FGF-R4 preferentially binds acidic fibroblast growth factor and, although its specific function is unknown, it is overexpressed in gynecological tumor samples, suggesting a role in breast and ovarian tumorigenesis. FGF-R4 signaling is down-regulated by receptor internalization and degradation; MMP14 promotes internalization and degradation of FGF-R4. Mutations in FGF-R4 lead to constitutive kinase activation or impair normal FGF-R4 inactivation leading to aberrant signaling.

UniProt ID: Q03142

Accession Number: NP_032037.2

Protein Construction: A DNA sequence encoding the extracellular domain (Met 1-Asp 366) of mouse FGF-R4 precursor was fused with the C-terminal polyhistidine tagged Fc region of human IgG1 at the C-terminus.

Source: HEK293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The rmFGF-R4/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer consists of 598 aa with a predicted MW of 67 kDa and migrates at ~100-110 kDa in reduced SDS-PAGE, due to glycosylation.

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg of the protein as determined by the LAL method

Biological Activity: Measured by its ability to inhibit FGF acidic (aFGF / FGF1) dependent proliferation of Balb/c3T3 mouse embryonic fibroblasts . The ED50 for this effect is typically 30-40 ng/ml.

Predicted N-terminal: Leu 17

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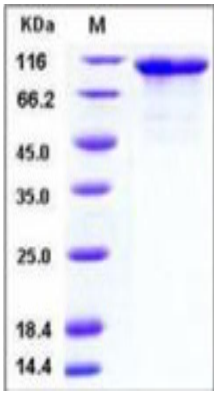
Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

SDS-PAGE



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