

# Recombinant Mouse FGFR-1/CD331 Protein

Catalog No.: RP01496 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	14182	P16092-1

### Tags

C-His

### Synonyms

FGFR1;BFGFR;CD331;CEK;FGFBR;FLG;HB GFR;N-SAM;FLT2;H2;KAL2;FLJ14326;FGFR1

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
40.33 kDa	55-70 kDa

### Endotoxin

&lt;0.1EU/μg


### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

FGFR1, also known as CD331, belongs to the fibroblast growth factor receptor subfamily where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. Fibroblast growth factors (FGFs) (FGF1 - 10 and 16 - 23) are mitogenic signaling molecules that have roles in angiogenesis, wound healing, cell migration, neural outgrowth and embryonic development. FGFs bind heparan sulfate glycosaminoglycans, which facilitates dimerization (activation) of FGF receptors. FGFR1 is a full-length representative protein consists 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 FGFR1 interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds both acidic and basic fibroblast growth factors and is involved in limb induction. CD331 can be detected in astrocytoma, neuroblastoma and adrenal cortex cell lines. Some isoforms are detected in foreskin fibroblast cell lines, however isoform 17, isoform 18 and isoform 19 are not detected in these cells. Defects in FGFR1 are a cause of Pfeiffer syndrome [idiopathic hypogonadotropic hypogonadism] Kallmann syndrome type 2, osteoglophonic dysplasia and trigonocephaly non-syndromic.

## Basic Information

### Description

Recombinant Mouse FGFR-1/CD331 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg22-Glu376) of mouse FGF R1/CD331 (Accession #NP\_034336.2) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

### Storage

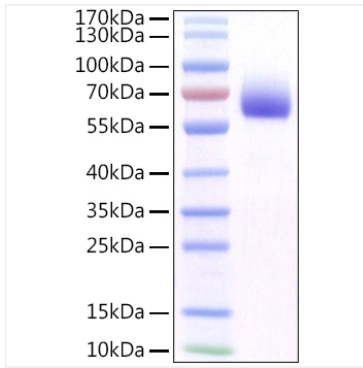
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Mouse FGFR-1/CD331 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-65kDa.