

## FGFR2 active protein

Recombinant Human FGFR2 Protein (His &amp; Fc tag)

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| CATALOG #<br><b>AAA173557</b> | HOST<br><b>Human Cells</b> |
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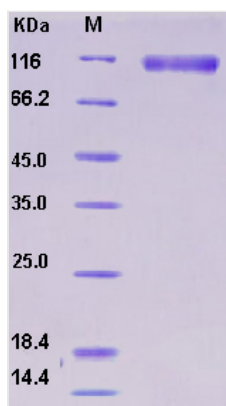
### PRODUCT SYNONYMS

FGFR2; Recombinant Human FGFR2 Protein (His & Fc tag); BEK; BFR-1; CD332; CEK3; CFD1; ECT1; FLJ98662; JWS; K-SAM; KGFR; TK14; TK25; FGFR2 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Human Cells                                                                                                                                                               |
| Purity/Purification     | > 90 % as determined by SDS-PAGE                                                                                                                                          |
| Form/Format             | Lyophilized from sterile PBS, pH 7.4, 5% Trehalose, 5% mannitol, 0.01% Tween-80.                                                                                          |
| Sequence Length         | 821                                                                                                                                                                       |
| Source                  | Human                                                                                                                                                                     |
| Predicted N Terminal    | Arg 22                                                                                                                                                                    |
| Endotoxin               | < 1.0 EU per ug of the protein as determined by the LAL method                                                                                                            |
| Bio-Activity            | Measured by its ability to inhibit FGF-acidic (aFGF-FGF1) dependent proliferation of Balb/C 3T3 mouse fibroblasts. The ED50 for this effect is typically 0.5-2.5 ng/mL    |
| Reconstitution          | It is recommended that sterile water (670uL) be added to the vial to prepare a stock solution of 0.15 mg/mL. Concentration is measured by UV-Vis.                         |
| Preparation and Storage | Store it under sterile conditions at -20°C to -80°C . It is recommended that the protein be aliquoted and be used as soon as possible. Avoid repeated freeze-thaw cycles. |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Related Product Information for FGFR2 active protein | <p>Background: FGFR2, also known as CD332, belongs to the fibroblast growth factor receptor subfamily where amino acid sequence is highly conserved between members and throughout evolution. FGFR2 acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of cell proliferation, differentiation, migration and apoptosis, and in the regulation of embryonic development. It is required for normal embryonic patterning, trophoblast function, limb bud development, lung morphogenesis, osteogenesis and skin development. FGFR2 plays an essential role in the regulation of osteoblast differentiation, proliferation and apoptosis, and is required for normal skeleton development. It also promotes cell proliferation in keratinocytes and imature osteoblasts, but promotes apoptosis in differentiated osteoblasts. FGFR2 signaling is down-regulated by ubiquitination, internalization and degradation. Mutations that lead to constitutive kinase activation or impair normal CD332 maturation, internalization and degradation lead to aberrant signaling. Over-expressed FGFR2 promotes activation of STAT1. Defects in CD3322 are the cause of Crouzon syndrome, Jackson-Weiss syndrome, Apert syndrome, Pfeiffer syndrome, Beare-Stevenson cutis gyrata syndrome, familial scaphocephaly syndrome, lacrimo-auriculo-dento-digital syndrome and Antley-Bixler syndrome without genital anomalies or disordered steroidogenesis.</p> <p>Description: A DNA sequence encoding the human FGFR2 (NP_000132.3) extracellular domain (Met 1-Glu 377) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 221316639                                                                                      |
| NCBI GeneID                      | 2263                                                                                           |
| NCBI Accession #                 | NP_000132.3                                                                                    |
| NCBI GenBank Nucleotide #        | NM_000141.4                                                                                    |
| UniProt Accession #              | P21802; P18443; Q01742; Q12922; Q14300; Q14301; Q14302; Q14303; Q14304; B4DFC2; E7EVR6; E9PCR0 |
| NCBI Official Full Name          | fibroblast growth factor receptor 2 isoform 1                                                  |
| NCBI Official Synonym Full Names | fibroblast growth factor receptor 2                                                            |
| NCBI Official Symbol             | FGFR2                                                                                          |
| NCBI Official Synonym Symbols    | BEK; JWS; BBDS; CEK3; CFD1; ECT1; KGFR; TK14; TK25; BFR-1; CD332; K-SAM                        |
| NCBI Protein Information         | fibroblast growth factor receptor 2                                                            |
| UniProt Protein Name             | Fibroblast growth factor receptor 2                                                            |
| UniProt Gene Name                | FGFR2                                                                                          |
| UniProt Synonym Gene Names       | BEK; KGFR; KSAM; FGFR-2; KGFR                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.