

## Recombinant Human FGFR2, His-tagged

Cat. No. FGFR2-87H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human FGFR2 was expressed as 6\*his-tagged fusion protein by E.Coli and purified by Ni-sepharose.

**Species** Human

**Source** E.coli

**Description** The protein encoded by this gene is a member of the fibroblast growth factor receptor family, 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. 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 the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member is a high-affinity receptor for acidic, basic and/or keratinocyte growth factor, depending on the isoform. Mutations in this gene are associated with Crouzon syndrome, Pfeiffer syndrome, Craniosynostosis, Apert syndrome, Jackson-Weiss syndrome, Beare-Stevenson cutis gyrata syndrome, Saethre-Chotzen syndrome, and syndromic craniosynostosis. Multiple alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

**AA Sequence** 359-422aa

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<b>Storage</b>	The protein is stored in PBS buffer at -20 oC. Repeated freeze-thaw cycles should be avoided.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	FGFR2 fibroblast growth factor receptor 2 [ Homo sapiens ]
<b>Official Symbol</b>	FGFR2
<b>Synonyms</b>	FGFR2; BEK; JWS; BBDS; CEK3; CFD1; ECT1; KGFR; TK14; TK25; BFR-1; CD332; K-SAM; fibroblast growth factor receptor 2; FLJ98662; FGF receptor; OTTHUMP00000020624; OTTHUMP00000020626; soluble FGFR4 variant 4; bacteria-expressed kinase; hydroxyaryl-protein kinase; keratinocyte growth factor receptor; BEK fibroblast growth factor receptor; protein tyrosine kinase, receptor like 14; EC 2.7.10.1; craniofacial dysostosis 1; Jackson-Weiss syndrome; Crouzon syndrome; Pfeiffer syndrome; FGFR-2; CD_antigen; CD332; Keratinocyte growth factor receptor 2; KSAM; OTTHUMP00000020621; OTTHUMP00000020629; FGF receptor
<b>Gene ID</b>	<a href="#">2263</a>
<b>mRNA Refseq</b>	<a href="#">NM_000141</a>
<b>Protein Refseq</b>	<a href="#">NP_000132</a>
<b>MIM</b>	<a href="#">176943</a>
<b>UniProt ID</b>	<a href="#">P21802</a>

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<b>Chromosome Location</b>	10q26
<b>Pathway</b>	Endocytosis; MAPK signaling pathway; Pathways in cancer; Prostate cancer; Regulation of actin cytoskeleton; Signaling by FGFR
<b>Function</b>	cancer; Regulation of actin cytoskeleton; Signaling by FGFR Function; ATP binding; fibroblast growth factor receptor activity; heparin binding; nucleotide binding; protein binding; receptor activity; transferase activity

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