

## Recombinant Human FGFR4, His-tagged

Cat. No. FGFR4-12882H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human FGFR4 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** C-term-300a.a.

#### 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 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 the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. The genomic organization of this gene, compared to members 1-3, encompasses 18 exons rather than 19 or 20. Although alternative splicing has been observed, there is no evidence that the C-terminal half of the IgIII domain of this protein varies between three alternate forms, as indicated for members 1-3. This particular family member 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.

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<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<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>	FGFR4 fibroblast growth factor receptor 4 [ Homo sapiens ]
<b>Official Symbol</b>	FGFR4
<b>Synonyms</b>	FGFR4; fibroblast growth factor receptor 4; CD334; JTK2; FGFR-4; tyrosylprotein kinase; protein-tyrosine kinase; hydroxyaryl-protein kinase; tyrosine kinase related to fibroblast growth factor receptor; TKF; MGC20292;
<b>Gene ID</b>	2264
<b>mRNA Refseq</b>	NM_002011
<b>Protein Refseq</b>	NP_002002
<b>MIM</b>	134935
<b>UniProt ID</b>	P22455
<b>Chromosome Location</b>	5q33-qter
<b>Pathway</b>	Downstream signaling of activated FGFR, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; FGF signaling

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pathway, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR4 ligand binding and activation, organism-specific biosystem; FRS2-mediated cascade, organism-specific biosystem;

**Function**

ATP binding; fibroblast growth factor 1 binding; fibroblast growth factor 2 binding; fibroblast growth factor binding; fibroblast growth factor-activated receptor activity; fibroblast growth factor-activated receptor activity; heparin binding; nucleotide

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