

## Recombinant Human FGFR3, DDK/His-tagged

Cat. No. FGFR3-80H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human FGFR3, transcript variant 3, fused with C-terminal DDK/His tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>This gene encodes a member of the fibroblast growth factor receptor (FGFR) family, with its amino acid sequence being highly conserved between members and among divergent species. 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. This particular family member binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in this gene lead to craniosynostosis and multiple types of skeletal dysplasia. Three alternatively spliced transcript variants that encode different protein isoforms have been described.</p>
<b>Molecular Mass</b>	41 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

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<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method
<b>Storage Buffer</b>	1 x PBS, pH7.4, 10% glycerol. Store at -80C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	FGFR3 fibroblast growth factor receptor 3 [ Homo sapiens (human) ]
<b>Official Symbol</b>	FGFR3
<b>Synonyms</b>	FGFR3; fibroblast growth factor receptor 3; ACH; CEK2; JTK4; CD333; HSGFR3EX; OTTHUMP00000149958; OTTHUMP00000149959; tyrosine kinase JTK4; hydroxyaryl-protein kinase; achondroplasia, thanatophoric dwarfism; EC 2.7.10.1; FGFR-3; CD333 antigen
<b>Gene ID</b>	2261
<b>mRNA Refseq</b>	NM_001163213
<b>Protein Refseq</b>	NP_001156685
<b>MIM</b>	134934
<b>UniProt ID</b>	P22607
<b>Chromosome Location</b>	4p16.3
<b>Pathway</b>	Adaptive Immune System; DAP12 interactions; Downstream signal transduction

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**Function**

ATP binding; fibroblast growth factor binding; fibroblast growth factor-activated receptor activity

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