Recombinant Human FGFR3, DDK/His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human FGFR3, transcript variant 3, fused with C-terminal DDK/His tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	41 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	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.

GENE INFORMATION

Gene Name	FGFR3 fibroblast growth factor receptor 3 [Homo sapiens (human)]
Official Symbol	FGFR3
Synonyms	FGFR3; fibroblast growth factor receptor 3; ACH; CEK2; JTK4; CD333; HSFGFR3EX; OTTHUMP00000149958; OTTHUMP00000149959; tyrosine kinase JTK4; hydroxyaryl-protein kinase; achondroplasia, thanatophoric dwarfism; EC 2.7.10.1; FGFR-3; CD333 antigen
Gene ID	2261
mRNA Refseq	NM_001163213
Protein Refseq	NP_001156685
MIM	134934
UniProt ID	P22607
Chromosome Location	4p16.3
Pathway	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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