Recombinant Full Length Human FGFR1 Protein, C-Flag-tagged

Cat. No. FGFR1-1056HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FGFR1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a member of the fibroblast growth factor receptor (FGFR) 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 binds both acidic and basic fibroblast growth factors and is involved in limb induction. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, and autosomal dominant Kallmann syndrome 2. Chromosomal aberrations involving this gene are associated with stem cell myeloproliferative disorder and stem cell leukemia lymphoma syndrome. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized.

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Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	89.4 kDa
AA Sequence	MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRC RLRDDVQSINWLRDG VQLAESNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDT TYFSVNVSDALPSSEDDDDDDDSSSEEKE TDNTKPNRMPVAPYWTSPEKMEKKLH AVPAAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRIGGYKVRY ATWSIIMDSVVP SDKGNYTCIVENEYGSINHTYQLDVVERSPHRPILQAGLPANKTVALGSNVEFMCKV Y SDPQPHIQWLKHIEVNGSKIGPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDA GEYTCLAGNSIGLS HHSAWLTVLEALEERPAVMTSPLYLEIIIYCTGAFLISCMVGSVI VYKMKSGTKKSDFHSQMAVHKLAKS IPLRRQVTVSADSSASMNSGVLLVRPSRLSS SGTPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEGCFG QVVLAEAIGLDKDKPN RVTKVAVKMLKSDATEKDLSDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVI VEYA SKGNLREYLQARRPPGLEYCYNPSHNPEEQLSSKDLVSCAYQVARGMEYLASKKCI HRDLAARNVL VTEDNVMKIADFGLARDIHHIDYYKKTTNGRLPVKWMAPEALFDRIY THQSDVWSFGVLLWEIFTLGGSP YPGVPVEELFKLLKEGHRMDKPSNCTNELYMM MRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQEYLDLS MPLDQYSPSFPDTRSSTCSSGEDSVFSHEPLPEEPCLPRHPAQLANGGLKRRTRTR PLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.

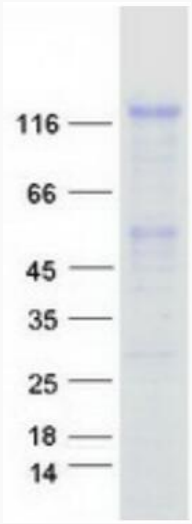
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Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways	Adherens junction, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton
Full Length	Full L.

GENE INFORMATION

Gene Name	FGFR1 fibroblast growth factor receptor 1 [Homo sapiens (human)]
Official Symbol	FGFR1
Synonyms	CEK; FLG; HH2; OGD; ECCL; FLT2; KAL2; BFGFR; CD331; FGFBR; FLT-2; HBGFR; N-SAM; FGFR-1; HRTFDS; bFGF-R-1
Gene ID	2260
mRNA Refseq	NM_023110.3
Protein Refseq	NP_075598.2
MIM	136350
UniProt ID	P11362

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Coomassie blue staining of purified FGFR1 protein.

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