Recombinant Human FGFR1, Fc Chimera

Cat. No. FGFR1-498H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Fibroblast Growth Factor Receptor 1 encoding the signal peptide and extracellular domain of human Fibroblast Growth Factor Receptor 1 alpha (IIIc) (aa 1-363) was fused to the Fc region of human IgG1 (aa 93-330). The chimeric protein was expressed in modified human 293 cells.
Species	Human
Source	HEK293
ProteinLength	1-363 a.a.
Description	Fibroblast growth factors (FGFs) belong to a large family (23 human members) of mitogenic factors that range in molecular mass from 17-34kDa. FGFs exhibit high affinity for heparin and heparin like glycosaminoglycans (HLGAGs), and these interactions are required for signaling activation from the FGF receptors.
Amino Acid Sequence	RPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWLRDGVQLAES NRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSEDDDDDD DSSSEEKETDNTKPNRMPVAPYWTSPEKMEKKLHAVPAAKTVKFKCPSSGTPNPTL RWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVPSDKGNYTCIVENEYGSINHTYQL DVVERSPHRPILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKIGP DNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHHSAWLTVL EALEGIPKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVT CVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN

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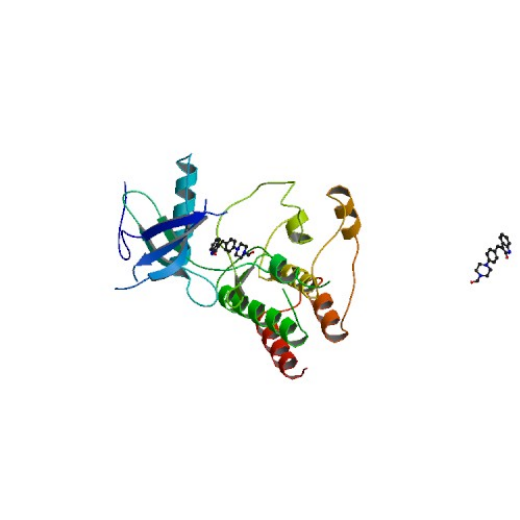
	GKEYKCRVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK.
Molecular Mass	FGF R1 alpha (IIIc)-Fc Chimera migrates as a broad band between 100 and 130 kDa in SDS-PAGE due to post-translation modifications, in particular glycosylation.
pI	Due to post-translational modifications, in particular glycosylation, the Symansis FGF R1 alpha (IIIc)-Fc Chimera separates into multiple isoforms with a pI between 5.2 and 6.9 in 2D PAGE.
% Carbohydrate	Purified FGF R1 alpha (IIIc)-Fc Chimera consists of 35-50% carbohydrate (by wt).
Glycosylation	FGF R1 alpha (IIIc)-Fc Chimera has N-linked and probably O-linked oligosaccharides.
Purity	>95%, as determined by SDS-PAGE and visualized by silver stain.
Formulation	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Storage	Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.

GENE INFORMATION

Gene Name	FGFR1 fibroblast growth factor receptor 1 [Homo sapiens]
Synonyms	FGFR1; fibroblast growth factor receptor 1; CEK; FLG; OGD; FLT2; KAL2; BFGFR; CD331; FGFBR; HBGFR; N-SAM; FLJ99988; OTTHUMP00000190881; soluble FGFR1 variant 1; FMS-like tyrosine kinase 2; ydroxyaryl-protein kinase; fms-related

	tyrosine kinase 2; heparin-binding growth factor receptor; basic fibroblast growth factor receptor 1
Gene ID	2260
mRNA Refseq	NM_015850
Protein Refseq	NP_056934
UniProt ID	P11362
Chromosome Location	8p12
MIM	136350
Pathway	Adherens junction; MAPK signaling pathway; elanoma; Pathways in cancer; Prostate cancer; Regulation of actin cytoskeleton; Axon guidance; Signaling by FGFR
Function	ATP binding; fibroblast growth factor receptor activity; heparin binding; nucleotide binding; protein binding; transferase activity

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PDB rendering based on 1agw.	

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