

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
 NRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSSEDDDDDD
 DSSSEKETDNTKPNRMPVAPYWTSPEKMEKKLHAVPAAKTVKFKCPSSGTPNPTL
 RWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDKGN YTCIVENEYGSINHTYQL
 DVVERSPHRPILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKIGP
 DNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHHSAWLTVL
 EALEGIPKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVT
 CVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GKEYKCRVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFNCSV
MHEALHNHYTQKSLSLSPGK.

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

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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; melanoma; 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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on 1agw.



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