

GFGR2

Recombinant Human FGFR-2 (IIIc) / Fc Chimera, soluble

Catalog No.	CRF017B	Quantity:	50 µg
Alternate Names:	Fibroblast growth factor receptor 2, CD332		
Description:	<p>Recombinant human soluble FGFR-2a (IIIc) was fused via an Xa cleavage site with the Fc part of human IgG₁. Human recombinant soluble FGFR-2a (IIIc) is a disulfide-linked heterodimeric protein.</p> <p>Fibroblast Growth Factors comprise a family of at least eighteen structurally related proteins that are involved in a multitude of physiological and pathological cellular processes, including cell growth, differentiation, angiogenesis, wound healing and tumorigenesis. The biological activities of the FGFs are mediated by a family of type I transmembrane tyrosine kinases which undergo dimerization and autophosphorylation after ligand binding. Four distinct genes encoding closely related FGF receptors, FGFR-1 to -4 are known. Multiple forms of FGFR-1 to -3 are generated by alternative splicing of the mRNAs. A frequent splicing event involving FGFR-1 and -2 results in receptors containing all three Ig domains, referred to as the alpha isoform, or only IgII and IgIII, referred to as the beta isoform. Only the alpha isoform has been identified for FGFR-3 and FGFR-4. Additional splicing events for FGFR-1 to -3, involving the C-terminal half of the IgIII domain encoded by two mutually exclusive alternative exons, generate FGF receptors with alternative IgIII domains (IIIb and IIIc). A IIIalpha isoform which is a secreted FGF binding protein containing only the N-terminal half of the IgIII domain plus some intron sequences has also been reported for FGFR-1. Mutations in FGFR-1 to -3 have been found in patients with birth defects involving craniosynostosis.</p>		
UniProt ID:	P21802		
Gene ID:	2263		
Source:	Insect cells		
Molecular Weight:	170 kDa (602 aa), predicted, homodimer 190 kDa apparent, due to glycosylation, non-reduced		
Formulation:	Lyophilized from PBS.		
Purity:	> 90%, by SDS-PAGE and visualized by silver stain		
Endotoxin Level:	< 1 EU/µg		
Biological Activity:	ED ₅₀ typically 15.0-30.0 ng/ml, determined by the ability to inhibit human FGF-2-dependent proliferation on HUVE cells.		
Reconstitution:	Centrifuge vial prior to opening. The lyophilized sFGF-R2a (IIIc)/Fc should be reconstituted in PBS or medium to > 50 µg/ml.		
Storage & Stability:	Store lyophilized product for up to 1 year at -20°C to -80°C. Reconstituted sFGFR- 2a (IIIc)/Fc should be stored in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		



Amino Acid Sequence: PSFSLVEDTTLEPEEPPTYQISQPEVYVAAPGESLEVRCLLKDAAVISWTKDGVHLGPN
NRTLIGEYLQIKGATPRDSGLYACTASRTVDSETWYFMVNVTDAISSGDEDDTDGAE
DFVSENSNNKRAPYWTNTEKMEKRLHAVPAANTVKFRCPAGGNPMTMRWLKNGKE
FKQEHRIGGYKVRNQHWLIMESVVP SDKGNYTCV VENEYGSINHTYHLDVVERS
PHR
PILQAGLPANASTVVGGDVEFVCKVYSDAQPHIQWIKHVEKNGSKY GPDGLPYLKV
LKA
AGVNTTDKEIEVL YIRNVTFEDAGEYTCLAGNSIGISFHSAWLTVLPAPGREKEIT
ASPDY
LEDPRRASIEGRGDPEEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRT
PE
VTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN
GKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSGSSFLYSKLTVDKSRWQQGNV FSCSVMHEAL
HNHYTQKSLSLSPGK

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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com