

Recombinant Human FGFR2, Fc-tagged

Cat. No. FGFR2-31452TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human soluble FGFR2a was fused via a Xa cleavage site with the Fc part of human IgG1. Human recombinant soluble FGFR2a is a disulfide-linked heterodimeric glycosylated protein. Source: insect cells.

Species Human

Description The protein encoded by this gene is a member of the fibroblast growth factor receptor 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 is a high-affinity receptor for acidic, basic and/or keratinocyte growth factor, depending on the isoform. Mutations in this gene are associated with Crouzon syndrome, Pfeiffer syndrome, Craniosynostosis, Apert syndrome, Jackson-Weiss syndrome, Beare-Stevenson cutis gyrata syndrome, Saethre-Chotzen syndrome, and syndromic craniosynostosis. Multiple alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

Conjugation Fc

Form Lyophilised: Reconstituted in PBS or medium to a concentration not lower than

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	50µg/ml.Soluble in water and most aqueous buffers.
Purity	>90% by SDS-PAGE
Storage buffer	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. Fibroblast growth factor receptor subfamily.Contains 3 Ig-like C2-type (immunoglobulin-like) domains.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	FGFR2 fibroblast growth factor receptor 2 [Homo sapiens]
Official Symbol	FGFR2
Synonyms	FGFR2; fibroblast growth factor receptor 2; bacteria expressed kinase , BEK, CFD1, craniofacial dysostosis 1 , Jackson Weiss syndrome , JWS, keratinocyte growth factor receptor , KGFR; CD332; CEK3; Crouzon syndrome; ECT1; K SAM; Pfeiffer syndrome; TK14
Gene ID	2263
mRNA Refseq	NM_000141
Protein Refseq	NP_000132
MIM	176943

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Uniprot ID	P21802
Chromosome Location	10q25.3-q26
Pathway	Angiogenesis, organism-specific biosystem; Downstream signaling of activated FGFR, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; FGF signaling pathway, organism-specific biosystem;
Function	ATP binding; fibroblast growth factor binding; fibroblast growth factor binding; fibroblast growth factor-activated receptor activity; fibroblast growth factor-activated receptor activity;

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