

## Recombinant Human FGFR2 Protein

Cat. No. FGFR2-058H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human FGFR2 protein without tag was expressed in E. coli.

**Species** Human

**Source** E.coli

**ProteinLength** 821

#### 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.

**Form** Lyophilized

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Molecular Mass</b>	19.3 kDa
<b>AA Sequence</b>	<p>MVSWGRFICLVVVMTATLSLARPSFSLVEDTTLEPEEPPTKYQISQPEVYVAAPGES  LEVRCLLKDAAVISWTKDGVHLGPNNRTVLIGEYLQIKGATPRDSGLYACTASRTVD  SETWYFMVNVTDAISSGDEDDTDGAEDFVSENSNNKRAPYWTNTEKMEKRLHAV  PAANTVKFRCPAGGNPMPTRWLKNGKEFKQEHRIGGYKVRNQHWSLIMESVPS  DKGNYTCVENEYGSINHTYHLDVVERSHPRPILQAGLPANASTVVGDDVEFVCKV  YSDAQPHIQWIKHVEKNGSKYGPDGLPYLKVLAAGVNTTDKEIEVLYIRNVTFEDA  GEYTCLAGNSIGISFHSAWLTVLPAPGREKEITASPDYLEIAIYCIGVFLIACMVVTVILC  RMKNNTTKPDFSSQPAVHKLTKRIPLRRQVTVSAESSSSMNSNTPLVRITRRLSSTA  DTPMLAGVSEYELPEDPKWEFPRDKLTLGKPLGEGCFGQVMAEAVGIDKDKPKEA  VTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYAS  KGNLREYLRARRPPGMEYSYDINRVPEEQMTFKDLVSCTYQLARGMEYLASQKCIH  RDLAARNVLTENNVMKIADFG LARDINNIDYKKTNGRLPVKWMapeALFDRVYT  HQSDVWSFGVLMWEIFTLGGSPYPGIPVEELFKLLKEGHRMDKpanctNELYMMM  RDCWHAVPSQRPTFKQLVEDLDRILTLTNNEEYLDLSQPLEQYSPSPDTRSSCSS  GDDSVFSPDPMPYEPCLPQYPHINGSVKT</p>
<b>Purity</b>	> 97%
<b>Applications</b>	WB; ELISA; FACS; FC
<b>Stability</b>	<p>This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).  After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18  centigrade for future use.</p>
<b>Storage</b>	4°C
<b>Concentration</b>	1 mg/mL

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<b>Storage Buffer</b>	PBS (pH 7.4-7.5). Sterile-filtered colorless solution (reconst).
<b>Reconstitution</b>	Reconstitute in sterile distilled H <sub>2</sub> O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	FGFR2 fibroblast growth factor receptor 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	FGFR2
<b>Synonyms</b>	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; TK25; FGFR-2; FGF receptor; soluble FGFR4 variant 4; bacteria-expressed kinase; hydroxyaryl-protein kinase; keratinocyte growth factor receptor; BEK fibroblast growth factor receptor; protein tyrosine kinase, receptor like 14; BEK; JWS; CFD1; KGFR; BFR-1; K-SAM; FLJ98662;
<b>Gene ID</b>	2263
<b>mRNA Refseq</b>	NM_000141
<b>Protein Refseq</b>	NP_000132
<b>MIM</b>	176943
<b>UniProt ID</b>	P21802

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