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

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Molecular Mass	19.3 kDa
AA Sequence	MVSWGRFICLVVVTMATLSLARPSFSLVEDTTLEPEEPPTKYQISQPEVYVAAPGES LEVRCLLKDAAVISWTKDGVHLGPNNRTVLIGEYLQIKGATPRDSGLYACTASRTVD SETWYFMVNVTDAISSGDDEDDTDGAEDFVSENSNNKRAPYWTNTEKMEKRLHAV PAANTVKFRCPAGGNPMPTMRWLKNGKEFKQEHRIGGYKVRNQHWSLIMESVVPS DKGNYTCVVENEYGSINHTYHLDVVERSPHRPILQAGLPANASTVVGGDVEFVCKV YSDAQPHIQWIKHVEKNGSKYGPDGLPYLKVLKAAGVNTTDKEIEVLYIRNVTFEDA GEYTCLAGNSIGISFHSAWLTVLPAPGREKEITASPDYLEIAIYCIGVFLIACMVVTVILC RMKNTTKKPDFSSQPAVHKLTKRIPLRRQVTVSAESSSSMNSNTPLVRITTRLSSTA DTPMLAGVSEYELPEDPKWEFPRDKLTLGKPLGEGCFGQVVMAEAVGIDKDKPKEA VTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYAS KGNLREYLRARRPPGMEYSYDINRVPEEQMTFKDLVSCTYQLARGMEYLASQKCIH RDLAARNVLVTENNVMKIADFGLARDINNIDYYKKTTNGRLPVKWMAPEALFDRVYT HQSDVWSFGVLMWEIFTLGGSPYPGIPVEELFKLLKEGHRMDKPANCTNELYMMM RDCWHAVPSQRPTFKQLVEDLDRILTLTTNEEYLDLSQPLEQYSPSYPDTRSSCSS GDDSVFSPDPMPYEPCLPQYPHINGSVKT
Purity	> 97%
Applications	WB; ELISA; FACS; FC
Stability	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.
Storage	4°C
Concentration	1 mg/mL

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Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution (reconst).
Reconstitution	Reconstitute in sterile distilled H2O 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.

GENE INFORMATION

Gene Name	FGFR2 fibroblast growth factor receptor 2 [Homo sapiens (human)]
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; 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;
Gene ID	2263
mRNA Refseq	NM_000141
Protein Refseq	NP_000132
MIM	176943
UniProt ID	P21802

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