

Recombinant Human FGFR1

Cat. No. FGFR1-8305H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGFR1 was expressed in NSO Cells.
Species	Human
Source	Mammalian Cells
Description	Fibroblast growth factor receptor-1 alpha (FGFR1-alpha) is an isoform of FGFR1 which is a receptor tyrosine kinase. FGFR1-alpha is expressed in prostate luminal epithelial cells. FGFR1alpha signals are posteriorizing factors that control node regression and posterior embryonic development. FGFR1-alpha is a splice variant of FGFR1 containing the first immunoglobulin-like domain, whereas FGFR1-beta lacks this domain. The presence or absence of this N-terminal domain influences the affinity of the receptor towards aFGF and heparin. FGFR1-alpha is expressed in prostate luminal epithelial cells, whereas FGFR1-beta is expressed in basal epithelial cells and smooth muscle cells.
Form	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Molecular Mass	The predicted molecular weight of Recombinant Human FGF R1α (IIIb) is Mr 66 kDa (monomer). However, the actual molecular weight as observed by migration on SDS-PAGE is Mr 110-120 kDa.
AA Sequence	rpsptlpeq aqpwgapvev esflvhpgdl lqlrcrlrdd vqsinwlrldg vqlaesnrtr itgeevevqd

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svpadsglya cvtsspsgsd tyfsvnvsvd alpssedddd dddssseeke tdntknpva pywtspekme
 kklhavpaak tvkfkcpssg tnpnplrwlk ngkefkpdhr iggykvryat wsiimdsvvp sdkgnytciv
 eneygsinht yqldvversp hrpilqaglp anktvalgsn vefmckvysd pqphiqwlkh ievngskigg
 dnlpvyqilk hsginssdae vltfnvtea qsgeyvckvs nyigeanqsa wltvtrpale erpavmtspl
 yleiegrdmd pkscdkthtc ppcpapellg gpsvflfppk pkdtlmisrt pevtevvvdv shedpevkfn
 wyvdgvevhn aktkpreeqy nstyrvsvl tvlhqdwlng keyckvsnk alpapiekti skakggprep
 qvytlppsr eltknqvsl clvkgfypsd iavewesngq pennykttpp vldsdgsfl yskltvdksr
 wqqgnvfscs vmhealhnhy tqkslslspg k

Endotoxin

<1.0 eu/μg="" as="" determined="" by="" the="" lal="">

Purity

>95% by SDS-PAGE and analyzed by silver stain.

Storage

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name

FGFR1 fibroblast growth factor receptor 1 [Homo sapiens]

Official Symbol

FGFR1

Synonyms

FGFR1; fibroblast growth factor receptor 1; FLT2, fms related tyrosine kinase 2 , KAL2; BFGFR; CD331; CEK; FLG; H2; H3; H4; H5; N SAM; Pfeiffer syndrome; FGFR1/PLAG1 fusion; proto-oncogene c-Fgr; FMS-like tyrosine kinase 2; hydroxyaryl-protein kinase; fms-related tyrosine kinase 2; heparin-binding growth factor receptor; basic fibroblast growth factor receptor 1; OGD; FLT2; KAL2; FGFR; FLT-2; HBGR; N-SAM; FGFR-1; bFGF-R-1; FLJ99988;

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Gene ID	2260
mRNA Refseq	NM_001174063
Protein Refseq	NP_001167534
MIM	136350
UniProt ID	P11362
Chromosome Location	8p12
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Downstream signaling of activated FGFR, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem;
Function	ATP binding; fibroblast growth factor 1 binding; fibroblast growth factor binding; fibroblast growth factor-activated receptor activity; fibroblast growth factor-activated receptor activity; heparin binding; nucleotide binding; protein binding; protein homodimerization activity; protein tyrosine kinase activity; protein tyrosine kinase activity; receptor activity;