

Fibroblast growth factor receptor 3 (FGFR3) Recombinant Protein | FGFR3 recombinant protein

Recombinant Human Fibroblast growth factor receptor 3 (FGFR3), partial

CATALOG # AAA113989	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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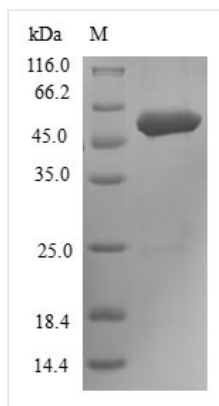
PRODUCT SYNONYMS

Fibroblast growth factor receptor 3 (FGFR3); Recombinant Human Fibroblast growth factor receptor 3 (FGFR3); partial; Recombinant Human Fibroblast growth factor receptor 3 (FGFR3) (His tagged); Fibroblast growth factor receptor 3; FGFR-3; EC=2.7.10.1; CD_antigen= CD333; FGFR3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	397-806aa; partial
Sequence	RLRSPPKKGL GSPTVHKISR FPLKRQVSLE SNASMSSNTP LVRIARLSSG EGPTLANVSE LELPADPKWE LSRARLTGK PLGEGCFGQV VMAEAIGIDK DRAAKPVTVA VKMLKDDATD KDLSDLVSEM EMMKMIGKHK NIINLLGACT QGGPLYVLVE YAAKGNLREF LRARRPPGLD YSFDCKPPE EQLTFKDLVS CAYQVARGME YLASQKCIHR DLAARNVLVT EDNVMKIADF GLARDVHNLD YYKKTNGRL PVKWMAPEAL FDRVYTHQSD VWSFGVLLWE IFTLGGSPYP GIPVEELFKL LKEGHRMDKP ANCTHDLYMI MRECWAAPS QRPTFKQLVE DLDRVLTVTS TDEYLDLSAP FEQYSPGGQD TPSSSSSGDD SVFAHDLLPP APPSSGGST
Species	Homo sapiens (Human)
Protein Information	Extracellular domain
Preparation and Storage	Store at -20 degree C. For extended storage, conserve at -20 degree C or -80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for FGFR3 recombinant protein	Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of cell proliferation, differentiation and apoptosis. Plays an essential role in the regulation of chondrocyte differentiation, proliferation and apoptosis, and is required for normal skeleton development. Regulates both osteogenesis and postnatal bone mineralization by osteoblasts. Promotes apoptosis in chondrocytes, but can also promote cancer cell proliferation. Required for normal development of the inner ear. Phosphorylates PLCG1, CBL and FRS2. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1, PIK3R1 and SOS1, and mediates activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Plays a role in the regulation of vitamin D metabolism. Mutations that lead to constitutive kinase activation or impair normal FGFR3 maturation, internalization and degradation lead to aberrant signaling. Over-expressed or constitutively activated FGFR3 promotes activation of PTPN11/SHP2, STAT1, STAT5A and STAT5B. Secreted isoform 3 retains its capacity to bind FGF1 and FGF2 and hence may interfere with FGF signaling.
Product Categories/Family for FGFR3 recombinant protein	Cardiovascular

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503711
NCBI GeneID	2261
NCBI Accession #	NP_000133.1
NCBI GenBank Nucleotide #	NM_000142.4
UniProt Accession #	P22607; Q14308; Q16294; Q16608; Q59FL9; D3DVP9; D3DVQ0
Molecular Weight	47.4 kDa
NCBI Official Full Name	fibroblast growth factor receptor 3 isoform 1
NCBI Official Synonym Full Names	fibroblast growth factor receptor 3
NCBI Official Symbol	FGFR3
NCBI Official Synonym Symbols	ACH; CEK2; JTK4; CD333; HSFGR3EX
NCBI Protein Information	fibroblast growth factor receptor 3; FGFR-3; tyrosine kinase JTK4; hydroxyaryl-protein kinase; fibroblast growth factor receptor 3 variant 4
UniProt Protein Name	Fibroblast growth factor receptor 3
UniProt Gene Name	FGFR3
UniProt Synonym Gene Names	JTK4; FGFR-3
UniProt Entry Name	FGFR3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.