

Recombinant Human FGFR3, Fc-tagged

Cat. No. FGFR3-28836TH Lot. No. (See product label)

SPECIFICATION

Product Overview

Human Recombinant FGFR3 Fc Chimera fused with Xa cleavage site with the Fc part of human IgG1 produced in baculovirus and expressed in insect cells, 190 kDa.

Species

Human

Description

This gene encodes a member of the fibroblast growth factor receptor (FGFR) family, with its amino acid sequence being highly conserved between members and among divergent species. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist 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 binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in this gene lead to craniosynostosis and multiple types of skeletal dysplasia. Three alternatively spliced transcript variants that encode different protein isoforms have been described.

Conjugation

Fc

Tissue specificity

Expressed in brain, kidney and testis. Very low or no expression in spleen, heart, and muscle. In 20- to 22-week old fetuses it is expressed at high level in kidney, lung, small intestine and brain, and to a lower degree in spleen, liver, and muscle. Isof

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Biological activity	Biological Activity:Determined by its ability to inhibit human FGF acidic-dependent proliferation on R1 cells. The ED50 for this effect is typically at 15.0-30.0 ng/ml.
Form	Lyophilised:Reconstitute in sterile PBS not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None
Storage	Store at -20°C or lower.Aliquot to avoid repeated freezing and thawing.
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	FGFR3 fibroblast growth factor receptor 3 [Homo sapiens]
Official Symbol	FGFR3
Synonyms	FGFR3; fibroblast growth factor receptor 3; ACH, achondroplasia, thanatophoric dwarfism; CD333; CEK2; JTK4;
Gene ID	2261
mRNA Refseq	NM_000142
Protein Refseq	NP_000133

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MIM	134934
Uniprot ID	P22607
Chromosome Location	4p16.3
Pathway	Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Downstream signaling of activated FGFR, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Endocytosis, organism-specific biosystem;
Function	ATP binding; fibroblast growth factor binding; fibroblast growth factor binding; fibroblast growth factor-activated receptor activity; nucleotide binding;

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