Active Recombinant Human Fibroblast Growth Factor 18, HIgG1 Fc-tagged, mutant

Cat. No. FGF18-222H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human FGF-18(AAH06245.1)(Glu28-Ala207) is fused to the N-terminus of the Fc region of a mutant human IgG1 was expressed in CHO cell.
Species	Human
Source	CHO
ProteinLength	28-207 a.a.
Description	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. It has been shown in vitro that this protein is able to induce neurite outgrowth in PC12 cells. Studies of the similar proteins in mouse and chick suggested that this protein is a pleiotropic growth factor that stimulates proliferation in a number of tissues, most notably the liver and small intestine. Knockout studies of the similar gene in mice implied the role of this protein in regulating proliferation and differentiation of midline cerebellar structures
Form	Lyophilized from 0.2 μm-filtered solution in PBS.
Bio-activity	Plays an important role in the regulation of cell proliferation, cell differentiation and cell migration.

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Molecular Mass	47KDa (monomer)
AA Sequence	Glu28-Ala207
Endotoxin	<0.06 eu/μg="" as="" determined="" by="" lal="" test.="">
Purity	>98%, by SDS-PAGE under reducing conditions
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100 μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	FGF18 fibroblast growth factor 18 [Homo sapiens]
Official Symbol	FGF18
Synonyms	FGF18; fibroblast growth factor 18; FGF 18; ZFGF5; FGF-18;
Gene ID	8817
mRNA Refseq	NM_003862
Protein Refseq	NP_003853
MIM	603726

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UniProt ID	O76093
Chromosome Location	5q34
Pathway	Downstream signaling of activated FGFR, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR2 ligand binding and activation, organism-specific biosystem; FGFR2c ligand binding and activation, organism-specific biosystem; FGFR3 ligand binding and activation, organism-specific biosystem; FGFR3b ligand binding and activation, organism-specific biosystem;
Function	growth factor activity; protein tyrosine kinase activity; type 1 fibroblast growth factor receptor binding; type 2 fibroblast growth factor receptor binding;

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