

# Active Recombinant Human Fibroblast Growth Factor 18, HlgG1 Fc-tagged

Cat. No. FGF18-224H 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 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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<b>Molecular Mass</b>	47KDa (monomer)
<b>AA Sequence</b>	Glu28-Ala207
<b>Endotoxin</b>	<0.06 eu/μg="" as="" determined="" by="" lal="" test="">
<b>Purity</b>	>98%, by SDS-PAGE under reducing conditions
<b>Stability</b>	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.
<b>Reconstitution</b>	Reconstitute at 100 μg/ml in sterile PBS.
<b>Warning</b>	Avoid freeze/thaw cycles.

## GENE INFORMATION

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

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<b>UniProt ID</b>	O76093
<b>Chromosome Location</b>	5q34
<b>Pathway</b>	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;
<b>Function</b>	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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