

Recombinant Human FGF18, GST-tagged

Cat. No. FGF18-12867H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human FGF18 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human


Source E.coli

ProteinLength 1-207a.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.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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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
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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