

Recombinant Human FGF1, His-tagged

Cat. No. FGF1-26204TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature Human FGF1 with His tag produced in the endosperm tissue of barley grain ; 157 amino acids with tag, Predicted MWt 18.1 kDa.
Species	Human
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. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Multiple alternatively spliced variants encoding different isoforms have been described.
Conjugation	HIS
Biological activity	Bioactivity: The bioactivity was determined by dose-dependent effect of Human FGF1 on proliferation of BaF3 cells transfected with FGF receptor. ED50 for FGF1-26204TH lies in the range of 1.00-1.50 ng/ml.
Form	Lyophilised: Reconstitute the lyophilized protein in sterile water to a concentration of no less than 100 µg/ml. For long term storage it is recommended to add a carrier

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	protein (0.1% HSA or BSA).
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: PBS, pH 7.2
Storage	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C.
Sequence Similarities	Belongs to the heparin-binding growth factors family.
Full Length	Full L.

GENE INFORMATION

Gene Name	FGF1 fibroblast growth factor 1 (acidic) [Homo sapiens]
Official Symbol	FGF1
Synonyms	FGF1; fibroblast growth factor 1 (acidic); FGFA; heparin-binding growth factor 1; AFGF; ECGF; ECGF beta; ECGFA; ECGFB; endothelial cell growth factor; alpha; beta; FGF alpha; GLIO703; HBGF1; heparin binding growth factor 1;
Gene ID	2246
mRNA Refseq	NM_000800
Protein Refseq	NP_000791
MIM	131220

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Uniprot ID	P05230
Chromosome Location	5q31.3-q33.2
Pathway	Downstream signaling of activated FGFR, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR1 ligand binding and activation, organism-specific biosystem; FGFR1b ligand binding and activation, organism-specific biosystem;
Function	S100 alpha binding; fibroblast growth factor receptor binding; growth factor activity; heparin binding; protein binding;

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