

# Native Human FGF1

**Cat. No.** FGF1-26203TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human FGF1.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilised
<b>Storage buffer</b>	Preservative: None Constituents: 5mM Sodium phosphate, 100mM Sodium chloride, pH 8.0
<b>Storage</b>	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino</b>	Recombinant Human FGF1 is a 15.8 kDa protein containing 140 amino acid residues:

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**acids** MFNLPPGNYKKPKLLYCSNGGHFLRILPDGTVDGTRDRSDQHIQLQLSAESVGEVYI  
KSTETGQYLA MDT DGLLYGSQTPNEECLFLERLEENHYNTYISKKHAEK NWFVGL  
KKN GSCKRGP RTHYGQKAILFLPLVSSD

**Sequence Similarities** Belongs to the heparin-binding growth factors family.

## 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

**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,

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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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