

## Recombinant Human FGF1, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Biological activity</b>	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.
<b>Form</b>	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	protein (0.1% HSA or BSA).
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: PBS, pH 7.2
<b>Storage</b>	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C.
<b>Sequence Similarities</b>	Belongs to the heparin-binding growth factors family.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	FGF1 fibroblast growth factor 1 (acidic) [ Homo sapiens ]
<b>Official Symbol</b>	FGF1
<b>Synonyms</b>	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;
<b>Gene ID</b>	2246
<b>mRNA Refseq</b>	NM_000800
<b>Protein Refseq</b>	NP_000791
<b>MIM</b>	131220

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Uniprot ID</b>	P05230
<b>Chromosome Location</b>	5q31.3-q33.2
<b>Pathway</b>	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;
<b>Function</b>	S100 alpha binding; fibroblast growth factor receptor binding; growth factor activity; heparin binding; protein binding;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA