

Recombinant Human FGF1 protein, His & GST-tagged

Cat. No. FGF1-547H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF1 (P05230) aa. (Met1~Asp155) fused with His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Asp155
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 47.3kDa; Accurate Molecular Mass: 55kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	> 98%
Characteristic	Isoelectric point is 6.5.
Applications	Cell culture; Activity Assays; In vivo assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	FGF1 fibroblast growth factor 1 [Homo sapiens (human)]
Official Symbol	FGF1
Synonyms	FGF1; fibroblast growth factor 1; AFGF; ECGF; FGFA; ECGFA; ECGFB; FGF-1; HBGF1; HBGF-1; GLIO703; ECGF-beta; FGF-alpha; beta-endothelial cell growth factor; endothelial cell growth factor, alpha; endothelial cell growth factor, beta; fibroblast growth factor 1 (acidic); heparin-binding growth factor 1

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Gene ID	2246
mRNA Refseq	NM_000800.4
Protein Refseq	NP_000791.1
UniProt ID	P05230
SDS-PAGE	