

Active Recombinant Human FGF1 (16-155aa), Met tagged

Cat. No. FGF1-021E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF1 (Phe16 Asp155, with an Nterminal Met) was expressed in E. coli and produced using nonanimal reagent in an animalfree laboratory.
Species	Human
Source	E.coli
Description	FGF acidic, also known as FGF1, ECGF, and HBGF1, is a 17 kDa nonglycosylated member of the FGF family of mitogenic peptides. FGF acidic, which is produced by multiple cell types, stimulates the proliferation of all cells of mesodermal origin and many cells of neuroectodermal, ectodermal, and endodermal origin. It plays a number of roles in development, regeneration, and angiogenesis.
Nterminal Sequence Analysis	Met
Molecular Mass	15.5 kDa
Activity	Measured in a cell proliferation assay using NR6R3T3 mouse fibroblasts. The ED50 for this effect is typically 0.1 0.3 ng/mL in the presence of 10 µg/mL of heparin.
Endotoxin Leve	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.

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Formulation	Lyophilized from a 0.2 µm filtered solution in Tris, NaCl and DTT. See Certificate of Analysis for details.
Reconstitution	Reconstitute at 200 µg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Storage	Use a manual defrost freezer and avoid repeated freezethaw cycles. 1. 12 months from date of receipt, 20 to 70 °C as supplied. 2. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3. 3 months, 20 to 70 °C under sterile conditions after reconstitution.
Unitprot ID	P05230

GENE INFORMATION

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

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MIM	131220
Chromosome Location	5q31
Pathway	Downstream signaling of activated FGFR; FGF signaling pathway; FGFR ligand binding and activation; FRS2-mediated cascade; IRS-mediated signaling; Insulin receptor signalling cascade; MAPK signaling pathway; PI3K Cascade; Regulation of actin cytoskeleton
Function	S100 alpha binding; fibroblast growth factor receptor binding; growth factor activity; heparin binding; protein tyrosine kinase activity; protein binding
PDB rendering based on 1afc.	