

Bioactive

FGF1 (Human) Recombinant Protein

Catalog # P8587

Size 50 ug

Specification

Product Description	Human FGF1 recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	AEGEITTF TALTEKFNLP PGNYKKPKLLYCSNGGHFLRILPDGTVDGTRDRSDQHIQLQLSAESVG EVYIKSTETGQYLAMDTDGLLYGSQTPNEECLFLERLEENHYNTYISKKHAEKNWVGLKKN GSCK RGPRTHYGQKAILFLPLPVSSD
Host	Escherichia coli
Theoretical MW (kDa)	17.3
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Chromatography
Purity	> 97% as determined by (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Activity	ED ₅₀ <0.5 ng/mL, measured by cell proliferation assay using murine balb/c 3T3 cells, corresponding to a specific activity >2 x 10 ⁶ IU/mg.
Storage Buffer	Lyophilized from a solution containing 1X PBS, pH 7.4 (0.5 mM DTT, 2 mM EDTA, 5 % Trehalose). Reconstitute the lyophilized powder in ddH ₂ O to 100 ug/mL.
Storage Instruction	Stored at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4°C for 2-7 d ays and should be stored at -20°C to -80°C for long term storage. Avoid repeated freeze/thaw cycles.

Applications

- Functional Study

Gene Info — FGF1

Entrez GeneID [2246](#)

Protein Accession# [Q53ZZ1](#)

Gene Name FGF1

Gene Alias AFGF, ECGF, ECGF-beta, ECGFA, ECGFB, FGF-alpha, FGFA, GLIO703, HBGF1

Gene Description fibroblast growth factor 1 (acidic)

Omim ID [131220](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

OTTHUMP00000066028|OTTHUMP00000066030|OTTHUMP00000066031|OTTHUMP00000174675|endothelial cell growth factor, alpha|endothelial cell growth factor, beta|heparin-binding growth factor 1

Pathway

- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Alzheimer disease](#)
- [Arthritis](#)

- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Chorioamnionitis](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Complications](#)
- [Endometriosis](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [Hyperparathyroidism](#)
- [Hypertension](#)
- [Intracranial Aneurysm](#)
- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Schizophrenia](#)