

Bioactive

FGF1 (Human) Recombinant Protein

Catalog # P8135 Size 1 mg

Specification

Product Description	Human FGF1 recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	MFNLPPGNYKKPKLLYCSNGGHFLRLPDGTVDGTRDRSDQHIQLQLSAESVGEVYIKSTETGQYL AMDTDGLLYGSQTPNEECLFLERLEENHYNTYISKKHAEKNWFVGLKKNKNGSCKRGPRTHYGQKAI LFLPLPVSSD
Host	Escherichia coli
Theoretical MW (kDa)	15.8
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Chromatography
Purity	> 95% as determined by (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Activity	ED ₅₀ > 2,000,000IU/mg, measured by proliferation of mouse BALB/c 3T3 cells is < 0.5 ng/mL.
Storage Buffer	Lyophilized from a solution containing 1 mg/mL PBS, pH 7.4. Reconstitute the lyophilized powder in ddH ₂ O to 0.1 - 0.25 mg/mL.
Storage Instruction	Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. Avoid repeated freeze/thaw cycles.

Applications

- Functional Study

Gene Info — FGF1

Entrez GeneID	2246
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](#)
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- [Intracranial Aneurysm](#)
- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)
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