

Bioactive

FGF1 (Human) Recombinant Protein

Catalog # P8586 Size 2 x 10 ug

Specification

Product Description	Human FGF1 recombinant protein expressed in Baculovirus cells.
Host	Viruses
Theoretical MW (kDa)	15.8
Form	Liquid
Preparation Method	Baculovirus expression system
Purification	Chromatography
Purity	> 95% as determined by (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Activity	ED ₅₀ <10 ng/mL, measured by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by 3H-thymidine uptake), corresponding to a specific activity <1 x 10 ⁵ IU/mg.
Storage Buffer	In 20mM Tris-HCl, pH 7.9 (20% glycerol, 100 mM KCl, 0.2 mM DTT).
Storage Instruction	Stored at 4°C for 2-4 weeks, should be stored at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). 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](#)