Bioactive

FGF1 (Human) Recombinant Protein

Catalog # P7264 Size 10 ug

Applications

Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description	Human FGF1 (P05230-1, 16 a.a. - 155 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Sequence	FNLPPGNYKKPKLLYCSNGGHFLRILPDGTVDGTRDRSDQHIQLQLSAESVGEVYIKSTETGQYLA MDTDGLLYGSQTPNEECLFLERLEENHYNTYISKKHAEKNWFVGLKKNGSCKRGPRTHYGQKAIL FLPLPVSSD
Host	Escherichia coli
Theoretical MW (kDa)	15.8
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 0.2 EU per 1 ug of protein (determined by gel clotting method)
Activity	The ED_{50} as determined by a cell proliferation assay of 3T3 cells is < 0.3 ng/ml, corresponding to a specific activity of > 3.3×10^6 IU/mg in the presence of 10.0 ug/ml of heparin.
Storage Buffer	Lyophilized from sterile distilled Water up to 100 ug/ml

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Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — FGF1

Entrez GeneID	2246
Protein Accession#	P05230-1
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

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- 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

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- Pre-Eclampsia
- Premature Birth
- Schizophrenia

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