

Bioactive

Full-Length

FGF2 (Human) Recombinant Protein

Catalog # P3596

Size 50 ug

Specification

Product Description	Human FGF2 (P09038, 1 a.a. - 155 a.a.) full-length recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	MAAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHIKLQLQAEERGVSIIKGVCANRYLAMKEDGRLLASKCVTDECEFFERLESNNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS
Host	Escherichia coli
Theoretical MW (kDa)	17
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED ₅₀ was determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors, corresponding to a specific activity of $\geq 2 \times 10^6$ units/mg.
Storage Buffer	Lyophilized from 1M NaCl, 20 mM PB pH 7.0
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

- SDS-PAGE

Gene Info — FGF2

Entrez GeneID [2247](#)

Protein Accession# [P09038](#)

Gene Name FGF2

Gene Alias BFGF, FGFB, HBGF-2

Gene Description fibroblast growth factor 2 (basic)

Omim ID [134920](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF. [provided by RefSeq]

Other Designations

basic fibroblast growth factor bFGF|fibroblast growth factor 2|heparin-binding growth factor 2|prostatropin

Pathway

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

Disease

- [Alzheimer disease](#)

- [Arthritis](#)
- [Birth Weight](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Retinopathy](#)
- [Edema](#)
- [Fetal Membranes](#)
- [Gastrointestinal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Myopia](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)

- [Neovascularization](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)