

Bioactive

FGF2 (Human) Recombinant Protein

Catalog # P8594

Size 50 ug

Specification

Product Description	Human FGF2 recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	MPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHIKLQLQAEERGVS SIKGVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNTYRSRKYTSWYVALKRTGQYKLGS KTGPGQKAILFLPMSAKS
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	16.5
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	chromatography
Purity	> 98% as determined by SDS-PAGE.
Activity	ED ₅₀ < 0.05 ng/mL, measured by the dose-dependant proliferation of mouse BALB/c 3T3 cells, corresponding to a Specific Activity of 2 x 10 ⁷ Units/mg.
Storage Buffer	Lyophilized from a solution containing 20mM Tris-HCl, pH 7.6, 150mM NaCl. Reconstitute the lyophilized powder in ddH ₂ O to 100 ug/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. 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 — 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](#)