Bioactive Sm Size

FGF2 (Human) Recombinant Protein

Catalog # P8594 Size 50 ug

Specification

Product Description	Human FGF2 recombinant protein expressed in?*Escherichia coli*.
Sequence	MPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHIKLQLQAEERGVV SIKGVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNTYRSRKYTSWYVALKRTGQYKLGS KTGPGQKAILFLPMSAKS
Host	Escherichia coli
Theoretical MW (kDa)	16.5
Form	Lyophilized
Preparation Method	*Escherichia coli* 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, corr esponding to a Specific Activity of 2 x 10^7Units/mg.
Storage Buffer	Lyophilized from a solution containing 20mM Tris-HCl, pH 7.6, 150mM NaCl. Reconstitute the lyophili zed powder in ddH_2O 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

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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

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- 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

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- Obstetric Labor
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Pre-Eclampsia
- Premature Birth

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