Bioactive

FGF5 (Human) Recombinant Protein

Catalog # P6444 Size 10 ug

Applications

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human FGF5 (P12034) recombinant protein expressed in *E.Coli*.
Sequence	MAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSASSSPAASLGSQGSGLEQSS FQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAM SKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKP QHISTHFLPRFKQSEQPELSFTVTVPEKKNPPSPIKSKIPLSAPRKNTNSVKYRLKFRFG
Host	Escherichia coli
Theoretical MW (kDa)	27.7
Form	Lyophilized
Preparation Method	This product is produced with no animal or human origin raw products. All processing and handling e mploys animal free equipment and animal free protocols.
Purity	>= 95%
Endotoxin Level	<= 1 EUs/ug (Kinetic LAL)
Activity	ED_{50} <= 10 ng/mL NR6R-3T3 proliferation w 1 ug heparin The values provided above are minimum expected values to pass internal requirements.

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Quality Control Testing	Reducing and Non-Reducing SDS PAGE
Conformation	Monomer
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate and 100 mM sodium chloride, pH 7.5.
Storage Instruction	Stored at -20°C to-80°C for 12 month. After reconstitution with sterile water at 0.1 mg/mL, store at -20°C to -80°C for 3 months, store at 4°C for 1 month. Aliquot to avoid repeated freezing and thawing. If a precipitate is observed, centrifuge the solution thoroughly and use only the soluble fraction (removing it from the precipitate). A 10% overfill has been added to compensate for any loss of protein in the precipitate.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- Western Blot

Gene Info — FGF5

Entrez GeneID	2250
Protein Accession#	P12034
Gene Name	FGF5
Gene Alias	HBGF-5, Smag-82
Gene Description	fibroblast growth factor 5
Omim ID	165190
Gene Ontology	Hyperlink

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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 gene was identified as an oncogene, which confers transforming potential when transfected into mammalian cells. Targeted disruption of the homolog of this gene in mouse resulted in the phenotype of abnormally long hair, which suggested a function as an inhibitor of hair elongation. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq
Other Designations	heparin-binding growth factor 5

Pathway

- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Regulation of actin cytoskeleton

Disease

- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Hypertension
- Neoplasm Recurrence
- Neoplasms

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