

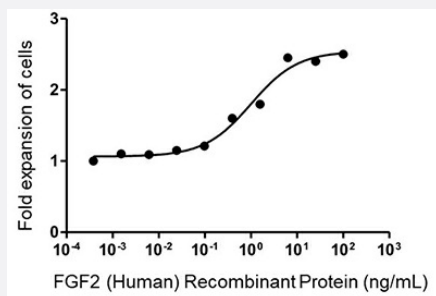
Bioactive

FGF2 (Human) Recombinant Protein

Catalog # P7008

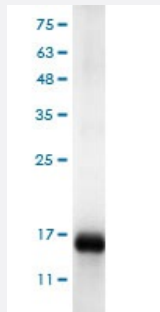
Size 100 ug

Applications



Functional Study

The ED₅₀ for this effect is <1 ng/mL, measured by the induction of 3T3 cells proliferation.



Specification

Product Description	Human FGF2 recombinant protein with polyhistidine tag at the N-terminus expressed in <i>Escherichia coli</i> .
Sequence	AAGSITLTPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHIKLQLQA EERGVSIGKVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNTYRSRKYTSWYVALKRTG QYKLGSKTGPGQKAILFLPMSAKS
Host	<i>Escherichia coli</i>
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system

Purification	Ni-NTA chromatography
Purity	> 98% by SDS-PAGE
Endotoxin Level	< 0.1 EU per 1 ug of the protein by the LAL method.
Activity	Measured by the induction of 3T3 cells proliferation. The ED 50 for this effect is < 1 ng/mL. The specific activity of recombinant human FGF-2 is approximately > 5 x 10 ⁵ IU/mg.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.01% sarkosyl, PBS, pH 8.0.
Storage Instruction	Store at -20°C, lyophilized protein is stable for 1 year. After reconstitution with deionized water, store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

The ED₅₀ for this effect is <1 ng/mL, measured by the induction of 3T3 cells proliferation.

- SDS-PAGE

Gene Info — FGF2

Entrez GeneID	2247
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](#)
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- [Meningeal Neoplasms](#)
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