Gibco

Human FGF-basic (FGF-2/bFGF) (aa 1-155) Recombinant Protein

26 References

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Catalog # PHG0261

100 µg

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808,00

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Quantity

1

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Product Details

Applications	Tested Dilution	Publications

Western Blot (WB)	Assay-dependent	-
Immunohistochemistry (IHC)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Functional Assay (Functional)	Assay-dependent	**View 1 publication**
Control (Ctrl)	Assay-dependent	-
Miscellaneous PubMed (Misc)	-	**View 25 publications**

Product Specifications

Species	Human
Pu	Human
Expression System	E. coli
Amino acid sequence	Human FGF-basic, amino acids Met134-Ser288 with C211S and C229S substitutions and an N-terminal Gly-His
Molecular weight	17.2 kDa
Class	Recombinant
Type	Protein
Purity	>95% by SDS-PAGE
Endotoxin concentration	<0.1 ng/µg
Activity	ED50 = 0.1 - 1.0 ng/mL; determined by the dose-dependent proliferation of BALB/3T3 cells.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	4° C
Shipping conditions	Wet ice (domestic); Wet or Dry ice (international)

Product Specific Information

Carrier-Free

Reconstitution: Centrifuge the vial briefly, before opening to bring the contents to the bottom. Reconstitute the lyophilized protein in sterile, distilled water to a concentration of 0.1-0.5 mg/mL. Apportion the reconstituted protein into working aliquots and store at ≤-20°C. Make any further dilutions of the

reconstituted protein in medium, or buffered sol arrier protein (e.g., PBS wit

Storage: Store the lyophilized protein at 2-8°C, preferably desiccated. Upon reconstitution, apportion into working aliquots and store at ≤-20°C (not in a frost-free freezer). Avoid repeated freeze-thaw cycles.

Target Information

FGF2 (FGFb, fibroblast growth factor basic) belongs to the fibroblast growth factor (FGF) family, and interacts with high-affinity transmembrane receptors to influence cell proliferation and tissue neovascularization. FGF2 exists as five isoforms with distinct intracellular localizations and functions. The 18 kDa isoform is predominantly cytosolic and acts through cell surface receptors, whereas the 22, 22.5, 24 and 34 kDa isoforms are nuclear and may signal independent of transmembrane receptor pathways. In humans, the gene is located on the q arm of chromosome 4. FGF2 has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for FGF2 contains multiple polyadenylation sites, and is alternatively translated from non-AUG 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. Diseases associated with FGF2 dysfunction include Kaposi Sarcoma and corneal neovascularization.

Bioinformatics

Protein Aliases: Basic fibroblast growth factor; basic fibroblast growth factor bFGF; bFGF; FGF; fgf basic; FGF-2; FGF-b; Fibroblast growth factor; Fibroblast growth factor 2; fibroblast growth factor 2 (basic); H-

Gene Aliases: BFGF; FGF-2; FGF2; FGFB; HBGF-2

UniProt ID: (Human) P09038 (http://www.uniprot.org/uniprot/P09038)

Entrez Gene ID: (Human) 2247 (http://www.ncbi.nlm.nih.gov/gene?term=2247)

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