Recombinant Bovine Basic Fibroblast Growth Factor

Catalog No: #AP60267

Package Size: #AP60267-1 10ug #AP60267-2 100ug #AP60267-3 500ug

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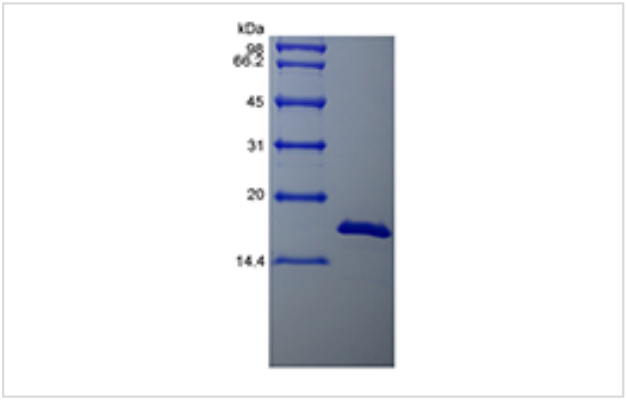
Description

Product Name	Recombinant Bovine Basic Fibroblast Growth Factor
Host Species	Escherichia coli.
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Other Names	FGF-2, HBGF-2
Uniprot	P03969
GeneID	281161
Calculated MW	Approximately 16.5 kDa, a single non-glycosylated polypeptide chain containing 147 amino acids.
Target Sequence	MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAEE RGVVSIKGVC ANRYLAMKED GRLLASKCVT DECFFFERLE SNNYNTYRSR KYSSWYVALK RTGQYKLGPK TGPGQKAILF LPMSAKS
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Images



Background

Bovine bFGF, encoded by the FGF2 gene, is a member of the fibroblast growth factor (FGF) family. Fibroblast growth factor was found in pituitary extracts in 1973 and then tested in a bioassay that caused fibroblasts to proliferate. After further fractionating the extract using acidic and basic pH, twodifferent forms have isolated thatnamed "acidic fibroblast growth factor" (FGF-1) and "basic fibroblast growth factor" (FGF-2). Bovine bFGF shares 95 % amino acidsequence identity with murine bFGF, and 97 % amino acidsequence identity with rat. Affinity between bFGF and its receptors can be increased by heparin or heparan sulfate proteoglycan. bFGF plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. It is also involved in a variety of biological processes, including embryonic development, morphogenesis, tissue repair, tumor growth and invasion. Additionally, bFGF is frequently used for a critical component of cell culture medium, e.g.,human embryonic stem cell culture medium, serum-free culture systems.

Note: This product is for in vitro research use only