

Recombinant Bovine Basic Fibroblast Growth Factor

Catalog No: #AP60267



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

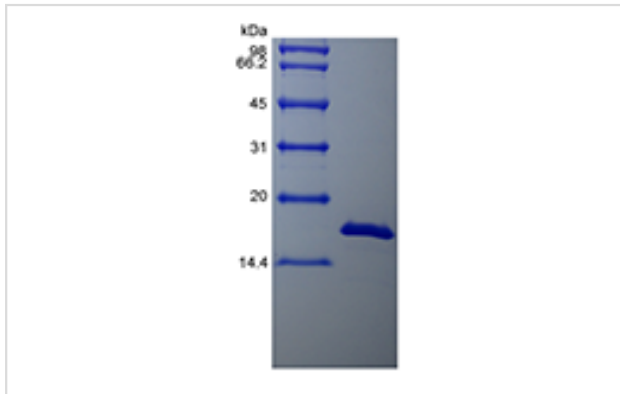
Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

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
Calculated MW	Approximately 16.5 kDa, a single non-glycosylated polypeptide chain containing 147 amino acids.
Target Sequence	MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAE E RGVVSIGKVC ANRYLAMKED GRLLASKCVT DECFERLE SNNYNTYRSR KYSSWYVALK RTGQYKLGPK TPGQKAILF 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. <ul style="list-style-type: none"> -□ A minimum of 12 months from date of receipt, when stored at &le;-20 °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, two different forms have isolated that named "acidic fibroblast growth factor" (FGF-1) and "basic fibroblast growth factor" (FGF-2). Bovine bFGF shares 95 % amino acid sequence identity with murine bFGF, and 97 % amino acid sequence 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 and is not intended for use in humans or animals.