

Growth Factors



Recombinant Bovine / Porcine FGF-2

Bovine / Porcine Basic Fibroblast Growth Factor

50 µg
1000 µg



customers@corebiogenesis.com

More info and related products at
www.corebiogenesis.com

Product Description

FGF-2, also known as basicFGF, is a growth factor that is produced mainly in fibroblasts, endothelial cells and smooth muscle cells. FGF-2 controls fundamental biological processes, including cell growth and differentiation, tissue formation, angiogenesis and wound healing. It is also an essential component in pluripotent stem cells culture, as one of the main media components for maintaining pluripotency, and providing consistent downstream differentiation programs. **Recombinant bovine/porcine FGF-2 consists of 146 amino acids, 16.06 kDa.** FGF-2 is qualified for different cell culture applications including industrial cell-manufacturing technologies, cellular agriculture, and cultivated meat production.

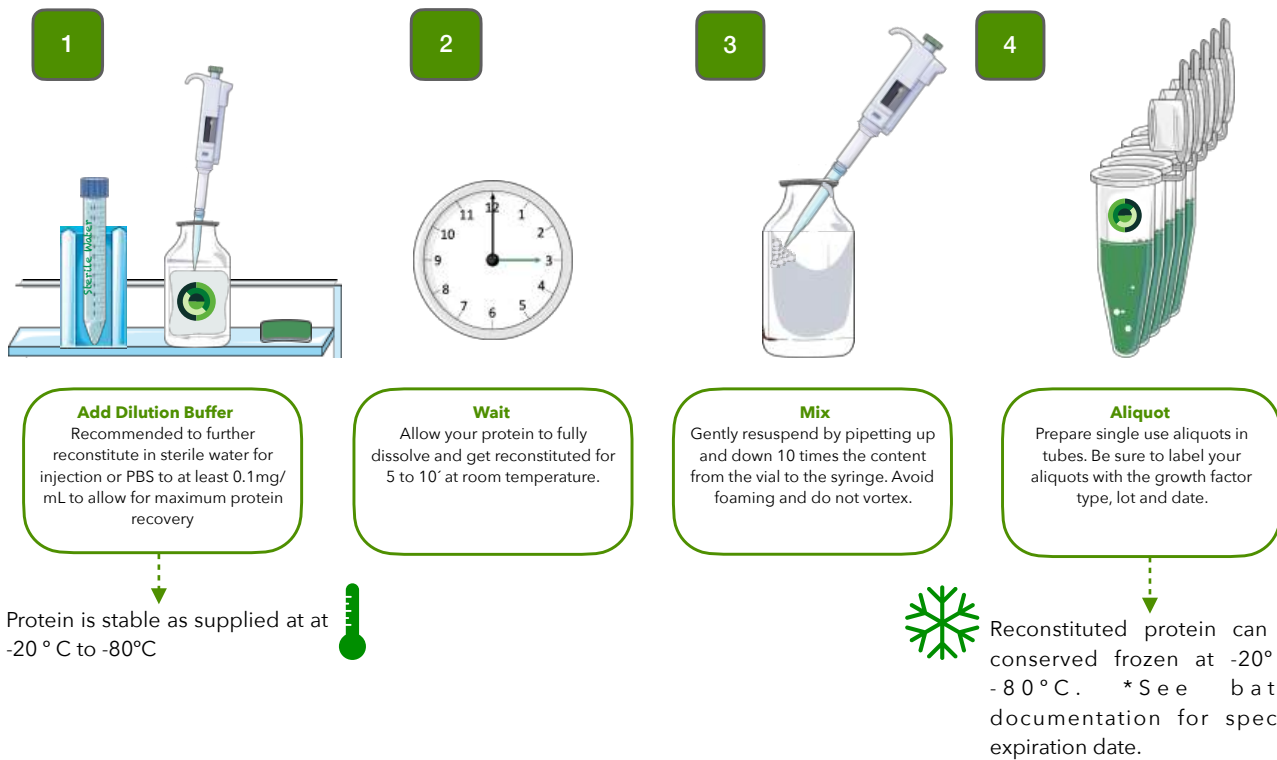
Product Information

Alternative Names:	bFGF-2, FGF-β, FGF2, Fibroblast growth factor-basic, btFGF-2.
Accession Number:	<u>P03969</u>
Amino Acid Sequence:	PALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHIKL QLQAEERGVSIGVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNTY RSRKYSSWYVALKRTGQYKLGPKTGPGQKAILFLPMSAKS
Molecular mass:	Estimated 16.4 kDa.
Origin:	Plant-derived.
Species:	Bovine.
Similarity:	Porcine (100%), Human (99%).

Product Specifications

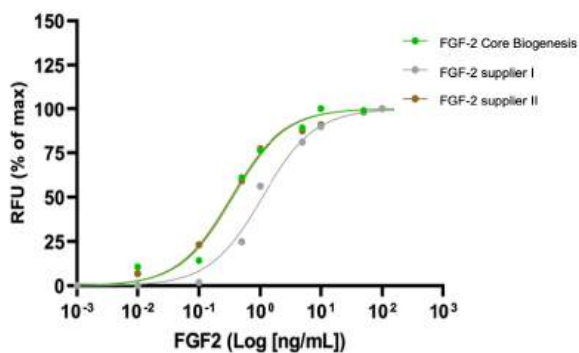
Purity:	≥ 80% SDS page resolved under reduced (R) conditions.
Bioactivity:	The specific bioactivity corresponds to generally EC50 ≤ 0.5 ng/ml. Determined by the ability to promote the proliferation of NIH/3T3 cells cultured in adherent condition.
Formulation:	Solution in PBS or Lyophilized.
Endotoxin level:	Recombinant protein expressed in plant system, free of bacterial endotoxins.
Animal Component:	Animal-derived Component Free. Core Biogenesis strictly guarantees that our recombinant proteins are not produced with or contain any components of animal origin.

Product Use & Storage



Product Data

Bioactivity



The biological activity of Core Biogenesis bovine/porcine Recombinant FGF-2 was tested by its ability to promote the proliferation of NIH/3T3 fibroblasts. Cell proliferation is measured using non-radioactive colorimetric assay and monitored by absorbance. The EC50 is defined as the effective concentration of the growth factor at which cell proliferation is at 50% of maximum. The EC50 is generally ≤ 0.5 ng/mL. For this particular case, Core Biogenesis FGF-2 corresponds to $EC_{50} = 0.36$ ng/mL.

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