FGF-2/bFGF/FGF-b, Human, Recombinant

Cat. No. : PCK009

General Information

Synonyms	HBGF-2, Prostatropin, Fibroblast Growth Factor 2;FGF-2;Basic Fibroblast Growth Factor; bFGF;Heparin-Binding Growth Factor 2;Fgf2;Fgf-2
Species	Human
Expression host	E.coli
Sequence	AAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHIKLQLQ AEERGVVSIKGVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNTYRSRKYTSWYVALK RTGQYKLGSKTGPGQKAILFLPMSAKS with polyhistidine tag at the N-terminus.
Accession	P09038.3
Tag	His-tag at the N-terminus
Mol mass	18.1 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce 3T3 cells proliferation. The ED50 for this effect is < 1 ng/mL. The specific activity of recombinant human FGF-2 is approximately > 5 × 10^5 IU/mg.

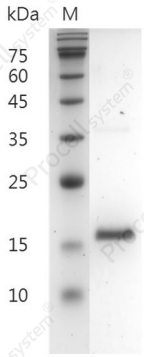
Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 0.01% sarkosyl in 1 × PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

FGF2, also known as a basic fibroblast growth factor (bFGF) and FGF-β, is a growth factor and signaling protein encoded by the FGF2 gene. FGF2 has been shown in preliminary animal studies to protect the heart from injury associated with a heart attack, reducing tissue death and promoting improved function after reperfusion. FGF-2 (bFGF) are also involved in a variety of biological processes, including embryonic development, morphogenesis, tissue repair, tumor growth, and invasion. Additionally, FGF-2 (bFGF) is frequently used for a critical component of cell culture medium, e.g., human embryonic stem cell culture medium, serum-free culture systems.

SDS-PAGE



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