

FGF-2/HBGF-2/Prostatropin, Human, Recombinant

货号：PCK009

产品信息

别名 HBGF-2, Prostatropin

物种 Human

表达宿主 E.coli

序列信息 AAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGV
REKSDPHIKLQLQAEERG VVSIKGV CANRYLAMKEDGRLLASKCVTDECFF
FERLESNNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPQGQKAILFLPMSA
KS with polyhistidine tag at the N-terminus.

检索号 P09038.3

分子量 18.1 kDa

标签 His-tag at the N-terminus

生物活性 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 x 10⁵ IU/mg.

产品特性

纯度 >98% as determined by SDS-PAGE. Ni-NTA chromatography

内毒素 <0.1 EU per 1 µg of the protein by the LAL method.

保存 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.

运输 Ambient temperature or ice pack.

制剂 The protein was lyophilized from a 0.2 µm filtered solution containing 0.01% sarkosyl in 1X PBS, pH 8.0.



复融

It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 $\mu\text{g/mL}$. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

背景介绍

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

