

Active GMP Recombinant Porcine FGF2 Protein, His-Tagged

Cat. No. FGF2-01P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP Recombinant Porcine FGF2 Protein, His-Tagged was expressed in Escherichia coli cell-derived in an animal component free process under cGMP guidelines.
Species	Porcine
Source	E.coli
Description	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.
Form	Lyophilized
Bio-activity	Measure by its ability to induce proliferation in 3T3 cells. The ED50 for this effect is <2 ng/mL.
AA Sequence	AAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSD PHIKLQLQAEERGVSISIKGVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNT YRSRKYSSWYVALKRTGQYKLGPKTGPGQKAILFLPMSAKS with polyhistidine tag a

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	t the N-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography
Notes	Please use within one month after protein reconstitution.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Storage Buffer	The protein was lyophilized from a solution containing 0.01% sarkosyl in 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

GENE INFORMATION

Gene Name	FGF2 fibroblast growth factor 2 [<i>Sus scrofa</i> (pig)]
Official Symbol	FGF2
Gene ID	397643
mRNA Refseq	NM_001405514.1
Protein Refseq	NP_001392443.1
UniProt ID	397643

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