Recombinant Bovine/Porcine FGF2 Protein

Cat. No. FGF2-06B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant bovine/porcine FGF-2 (bFGF) 145aa protein without tag was expressed in E. coli. Animal origin-free (AOF) and carrier protein-free. Mass spectrometry: single species with expected mass. Recovery from stock vial: >95%
Species	Bovine/Porcine
Source	E.coli
ProteinLength	145 aa
Description	Plays an important role in the regulation of cell survival, cell division, cell differentiation and cell migration.
Molecular Mass	16 kDa
Endotoxin	<0.005 EU/μg protein (below level of detection)
Applications	Bovine and porcine Stem cell Expansion and maintenance; primary cell culture; cellular agriculture process development
Storage	Prepare single use aliquots, add carrier protein if desired, store frozen at -20 or -80 centigrade

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Storage Buffer	Frozen in PBS

GENE INFORMATION

Gene Name	FGF2 fibroblast growth factor 2 [Bos taurus (cattle)]
Official Symbol	FGF2
Synonyms	FGF2; fibroblast growth factor 2; BFGF; FGF-2; HBGF-2; fibroblast growth factor 2; basic fibroblast growth factor; fibroblast growth factor 2 (basic); heparin-binding growth factor 2
Gene ID	281161
mRNA Refseq	NM_174056
Protein Refseq	NP_776481
UniProt ID	P03969

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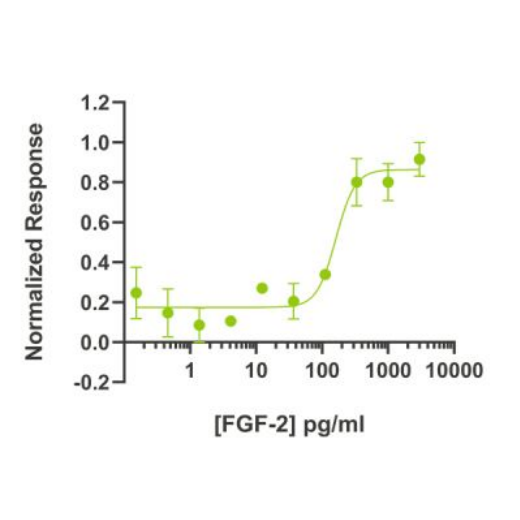
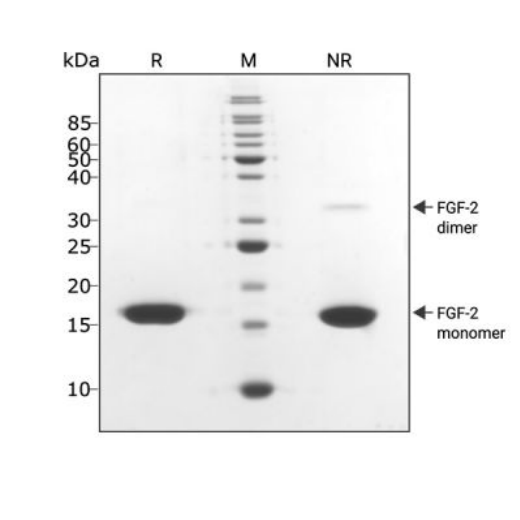
Bioactivity	 FGF-2 activity is determined using the serum response element luciferase reporter assayin transfected HEK293T cells. EC50 = 160 pg/ml (10 pM). Cells are treated in triplicate with a serial dilution of FGF-2 for 3 hours. Firefly luciferase activity is measured and normalized to the control Renilla luciferase activity.
Purity	

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Bovine/porcine FGF-2 migrates as a single major band at 16 kDa in non-reducingconditions and some dimeric protein migrating at 32 kDa. Upon reduction (R), only the 16 kDa band is visible. No contaminating protein bands are visible. Purified recombinant protein was resolved using 15% w/v SDS-PAGE in reducedand non-reducedconditions and stained with Coomassie Brilliant Blue R250.

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