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# Recombinant bovine PDGF-BB protein (Qk079-FG)




**Type:** Food grade proteins

**Available for purchase:** Unit Size (µg): 25, 50, 100, 500, 1000

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## Product Information

Bovine PDGF-BB (platelet-derived growth factor BB) protein is a homodimer of PDGF-B peptide chains. PDGF-BB can be used for the development of optimized serum-free culture media for species-specific bovine in cellular agriculture protocols. PDGF-BB can be added to bovine culture medium to promote rapid and efficient cell division, maintain high cell proliferation rates in bioreactors, promote the maturation of bovine myoblasts into myotubes and stimulate the production of extracellular matrix components.

Qkine bovine PDGF-BB is a high-purity 24.5 kDa disulfide-linked bioactive dimeric protein that is animal origin-free (AOF) and carrier protein-free. Qkine has optimized the bovine PDGF-BB manufacturing process to produce a highly bioactive species-specific protein with excellent lot-to-lot consistency for enhanced reproducibility.

### Alternative protein names

PDGF-2, Proto-oncogene c-SIS, Becaplermin, PDGFBB, PDGF BB

### Molecular weight

24.5 kDa (monomer)

### Protein Uniprot number

High purity bovine protein (Uniprot: B1H0W5)

### Species reactivity

- bovine

## Product Information

- High quality food grade recombinant protein
- >98%, by SDS-PAGE quantitative densitometry
- Animal origin-free (AOF) and carrier protein-free
- Expressed in *E. coli*
- Manufactured in the UK under a food manufacturing HACCP regime
- Lyophilized from acetonitrile, TFA

## Reconstitution instructions

- Resuspend in sterile-filtered water at >50 µg/ml

## Featured applications

- Maintenance and expansion of bovine iPSC, ESC and primary cells
- Proliferation of fibroblasts and smooth muscle cells
- Cellular agriculture and cultivated meat cell culture media optimization
- Serum-free media development

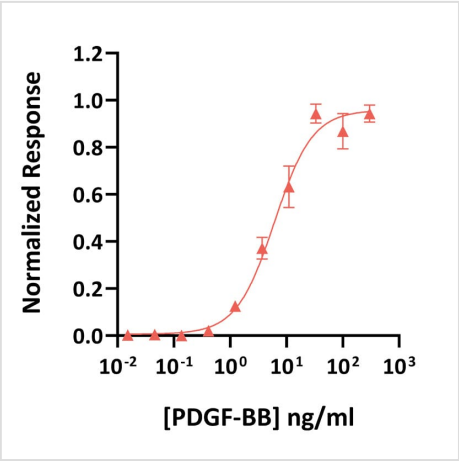
## Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial:  >95%
- Endotoxin: <0.05 EU/µg protein
- Full raw materials traceability, allergen analysis, CoO, CoA, beta-lactam-free and animal origin-free certification available

## Scientific Information

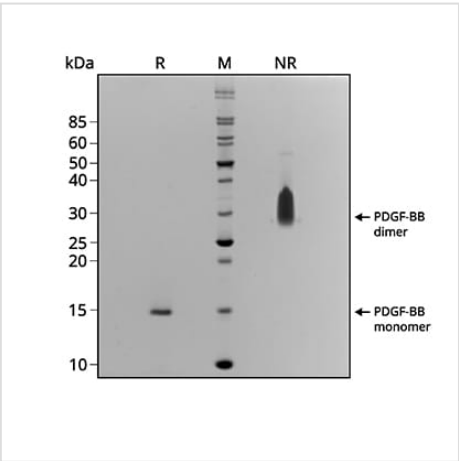
### Bioactivity

Recombinant bovine PDGF-BB activity was determined using a NFAT reporter assay in HEK293 cells co-transfected with the PDGF β receptor. Transfected cells were treated in triplicate with a serial dilution of bovine PDGF-BB for 6 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. EC50 = 5.4 ng/ml (221 pM).




### Purity

Recombinant bovine PDGF-BB migrates as a band at approximately 14 kDa (monomer) in reduced (R) and as major band at approximately 27 kDa in non-reduced (NR) conditions. No contaminating protein bands are present. The purified recombinant protein (3 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250.




**Original product page:** https://qkine.com/product/recombinant-bovine-pdgf-bb-protein-qk079-fg/

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