

## Recombinant bovine PDGF-BB protein (Qk079)



**Type:** Stem cells

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

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### Product Information

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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, PDGF BB, PDGFBB, Qk79

#### Molecular weight

24.5 kDa (monomer)

#### Protein Uniprot number

High purity bovine protein (Uniprot number: B1H0W5)

#### Species reactivity

- bovine

### **Product Information**

- >98%, by SDS-PAGE quantitative densitometry
- Expressed in *E. coli*
- Animal origin-free (AOF) and carrier protein-free
- Manufactured in our Cambridge, UK laboratories
- Lyophilized from acetonitrile, TFA

### **Reconstitution instructions**

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

### **Featured applications**

- Culture of bovine (cow) muscle stem cells
- Cellular agriculture and cultivated meat cell culture media optimization
- Serum-free media development
- Proliferation of fibroblasts and smooth muscle cells

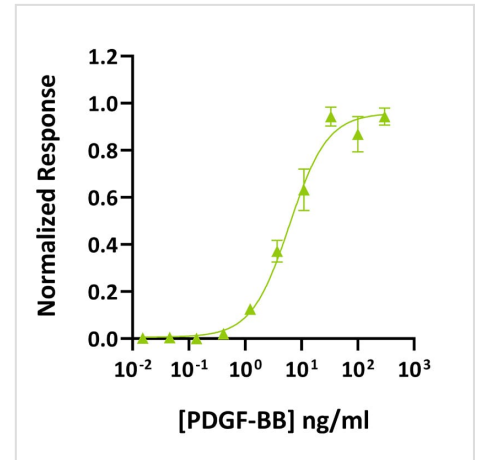
### **Further quality assays**

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein

# Scientific Information

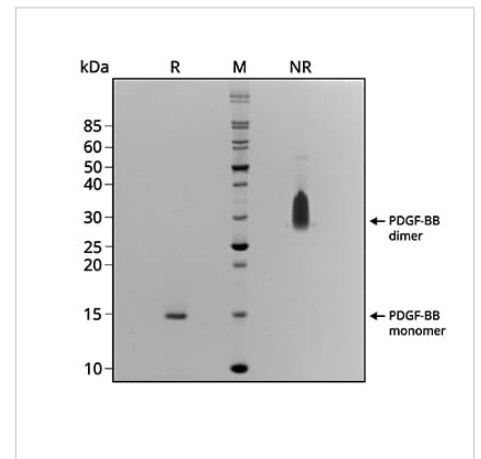
## Bioactivity

Recombinant bovine PDGF-BB activity was determined using a NFAT reporter assay in HEK293 cells co-transfected with the PDGF  $\beta$  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.  $EC_{50} = 5.4$  ng/ml (221 pM). Data from Qk079 lot #204670.



## 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  $\mu$ g) was resolved using 15% w/v SDS-PAGE in reduced (+ $\beta$ -mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk079 lot #204670.



**Original product page:** <https://ryan.calliope-alpha.ts.net/product/bovine-pdgf-bb-protein-qk079/>

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