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Recombinant human PDGF-BB protein (Qk044)



Type: Stem cells

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

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Product Information

Human PDGF-BB (platelet derived growth factor BB) protein is a homodimer of PDGF-B peptide chains. Its is a potent mitogen expressed by platelets which stimulates proliferation and angiogenesis and is involved in tissue repair. PDGF-BB increases stem cell proliferation and marker expression and can be used in osteogenic and neural stem cell differentiation.

Qkine recombinant human PDGF-BB is a highly pure 25 kDa disulfide–linked bioactive dimeric protein, animal origin-free (AOF), tag free and carrier protein-free.

This protein is also available as GMP compliant Cell Therapy Grade, to enquire email support@qkine.com.

Alternative protein names

GDGF, Glioma-derived growth factor, ODGF, Osteosarcoma-derived growth factor, PDGF BB, PDGFBB, Qk44

Molecular weight

25 kDa

Protein Uniprot number

High purity human PDGF-BB protein (Uniprot: P01127)

Species reactivity

- human

- species similarity:
- mouse - 89%
- rat - 88%
- bovine - 95%
- porcine - 91%

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

- Neural stem cell proliferation and neuronal differentiation
- Expansion of induced pluripotent, embryonic and mesenchymal stem cells
- Osteogenic differentiation

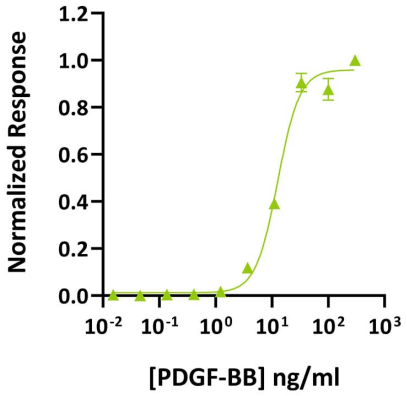
Further quality assays

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

Scientific Information

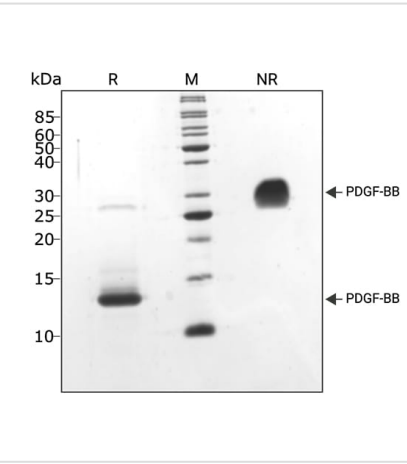
Bioactivity

PDGF-BB activity was measured using a NFAT-responsive luciferase assay in HEK293 cells co-transfected with PDGFBR. Cells were treated in triplicate with a serial dilution of PDGF-BB for 6 hours. Firefly luciferase activity was measured and readings were normalised to the maximum response. Data from Qk044 lot #204627. EC50 = 12.7 ng/ml (0.52 nM).



Purity

PDGF-BB migrates as a single band at ~30 kDa in non-reducing (NR) conditions and 13 kDa upon reduction (R). No contaminating protein bands are visible. Purified recombinant protein (3 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptothanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk044 batch #104306.



Original product page: https://qkine.com/product/recombinant-human-pdgf-bb-protein-qk044/

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