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Recombinant human PDGF-AA protein (Qk043)



Type: Stem cells

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

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Product Information

Human PDGF-AA (platelet derived growth factor AA) protein is a homodimer of PDGF-A peptide chains. PDGF-AA is commonly used to differentiate human pluripotent stem cell (hPSC)-derived neural progenitor cells into oligodendrocyte precursor cells.

Qkine human PDGF-AA is a high purity 29 kDa disulfide–linked bioactive dimeric protein, animal origin-free (AOF) 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, Platelet-derived growth factor-AA, PDGF AA, PDGFAA, Qk43

Molecular weight

29 kDa

Protein Uniprot number

High purity human PDGF-AA protein (Uniprot: P04085)

Species reactivity

- human

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

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

- Differentiation of neural progenitor cells into oligodendrocyte precursor cells

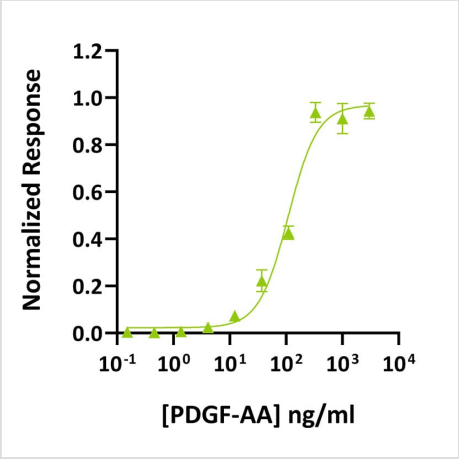
Further quality assays

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

Scientific Information

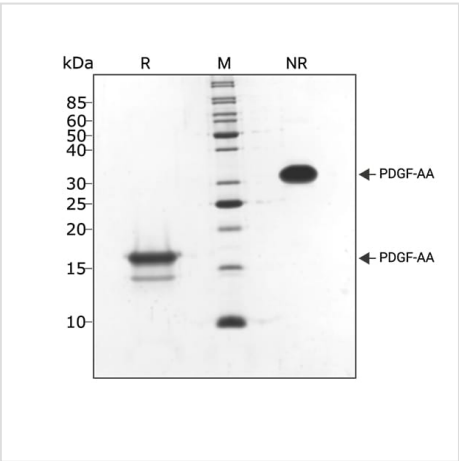
Bioactivity

PDGF-AA activity was measured using a NFAT-responsive luciferase assay in HEK293 cells co-transfected with PDGFAR. Cells were treated in triplicate with a serial dilution of PDGF-AA for 6 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. Data from Qk043 lot #104383. EC50 = 109 ng/ml (3.8 nM).



Purity

PDGF-AA migrates as a single band at ~30 kDa in non-reducing (NR) conditions and ~15 kDa upon reduction (R). The additional faint lower molecular weight band in the reduced condition (R) is due to the harsh treatment required to fully reduce the disulfide linked dimer. 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 PDGF-AA Qk043 batch #104307.



Original product page: https://qkine.com/product/recombinant-human-pdgf-aa-protein-qk043/

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