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Recombinant human vitronectin protein (Qk120)



Type: Stem cells

Available for purchase: Unit size (µg): 500, 5000

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Product Information

Vitronectin protein is widely used in stem cell culture. It provides a defined environment that supports the maintenance of pluripotency and is suitable for feeder-free culture, expansion, differentiation, and reprogramming of stem cells.

Qkine vitronectin is a high-purity animal origin-free recombinant protein with a molecular weight of 47.8 kDa. It is carrier-free and protein tag-free, ensuring exceptional lot-to-lot consistency and compatibility with translational studies and iPSC-based model production for screening. Qkine recombinant vitronectin protein is ultra high-purity with exceptionally low residual endotoxins making it suitable for the reproducible culture of stem cells, primary cells, organoids, and use in sensitive neural differentiations.

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

Alternative protein names

Truncated Vitronectin, VTN-N, S-protein, Serum-spreading factor, V75

Product Size Wording

5000 µg will be dispatched as 10 x 500 µg

Molecular weight

47.8 kDa (monomer)

Protein Uniprot number

Highly pure recombinant human vitronectin protein (truncated) (UniProt: P04004)

Species reactivity

- human
- species similarity:
- mouse - 74%
- rat - 76%
- bovine - 72%
- porcine - 74%

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 PBS, mannitol and TCEP

Reconstitution instructions

- Resuspend in sterile-filtered water at 1 mg/ml

Featured applications

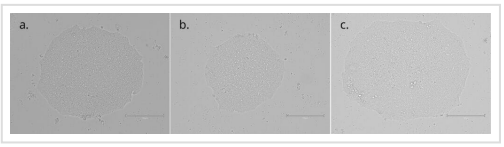
- Induced pluripotent and embryonic stem cell differentiation and maintenance
- Differentiation of human pluripotent stem cells towards extra-embryonic endoderm, mesenchymal, neural lineages, and chondrocytes
- Promotion of cell adhesion and migration
- Organoid growth and proliferation
- Stimulation of angiogenesis and vascular network development
- Fully defined, animal-free protocols for translational studies and preclinical stem cell production

Further quality assays

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

Scientific Information

Bioactivity



Imaging of iPSC colonies grown on Qkine vitronectin coated plates in E8-like media retained their highly preserved morphological appearance. (A) after initial seeding and 3 days in culture; (B) After 1 passage and 7 days in culture; (C) After 3 passages and 14 days in culture (scale bar = 150 µm). 6-well plates were coated with 5 µg/ml Qk120 vitronectin protein lot #204660.

Purity

Preparation of cell culture plates with Qkine ultra-high quality vitronectin (Qk120)

- Briefly centrifuge vial containing vitronectin Qk120 to ensure all lyophilized protein is collected at the bottom of the vial.
- Resuspend in 500 µl of MilliQ water to make a 1 mg/ml stock and lightly agitate the tube to ensure everything has fully reconstituted.
- Per 6-well plate required, dilute 30 µl of the 1 mg/ml in 6 ml of phosphate buffered saline (PBS) without MgCl and CaCl to make 5 µg/ml solution.
- Coat each well of 6-well plate with 1 ml per well of 5 µg/ml vitronectin for at least two hours at 37°C.
- Adjust volume of 5 µg/ml vitronectin per well for different area plate clusters.
    - 12-well plate add 500 µl
    - 24-well plate add 250 µl
    - 96-well plate add 100 µl
- Aliquot the remaining resuspended 1 mg/ml vitronectin into appropriately sized single use aliquots and store at -80°C.

Original product page: https://qkine.com/product/recombinant-human-vitronectin-protein-qk120/

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