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Recombinant human OSM protein (Qk049)



Type: Stem cells

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

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Product Information

Human OSM protein (oncostatin M) is used in the differentiation of human pluripotent stem cells into hepatocyte-like cells. OSM also plays roles in osteogenesis and neurogenesis, and is an important regulator of the hematopoietic stem cell niche in the bone marrow.

Qkine human oncostatin M protein is high purity and animal origin-free (AOF) and carrier-protein free for reproducible results.

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

Alternative protein names

Oncostatin M, OSM, Qk49

Molecular weight

22 kDa

Protein Uniprot number

High purity human OSM protein (Uniprot: P13725)

Species reactivity

- human
- species similarity:

- mouse - 50%
- rat - 50%
- bovine - 60%
- porcine - 68%
- NB: although the sequence identity is low, human OSM has been shown to be active on mouse ES cells

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

- Maturation of hepatoblasts into hepatocyte like cells

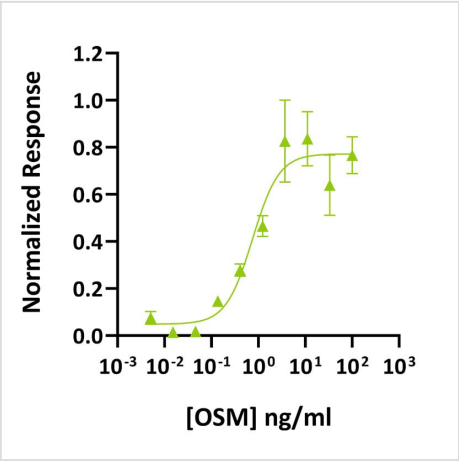
Further quality assays

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

Scientific Information

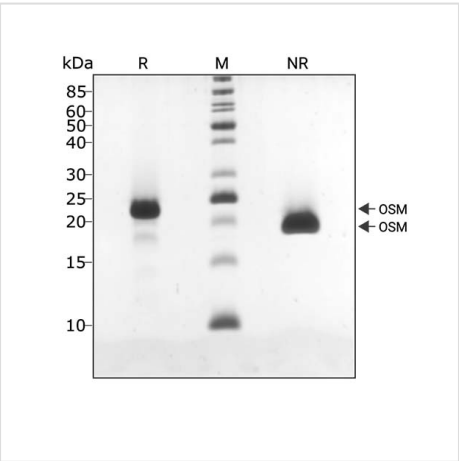
Bioactivity

OSM activity was determined using the Promega serum response element luciferase reporter assay (*) in transfected HEK293T cells. EC50 = 0.75 ng/ml (34 pM). Cells were treated in triplicate with a serial dilution of OSM for 6 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. Data from Qk049 lot #104336. *Promega pGL4.33[*luc2P*/SRE/Hygro] #E1340



Purity

OSM migrates as a single band at 20 kDa in non-reducing (NR) conditions and 22 kDa upon reduction (R). The slight band under the main band in the reduced sample is likely an artefact of the reduction protocol. 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 Qk049 batch #104336.



Original product page: https://qkine.com/product/recombinant-human-osm-protein-qk049/

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