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|--------|--|-----------------------------|---|--|
| CA1077 | HumanKine™ OSM | |  | |
| | Prod. No. S2335-10UG | lot #: PRXXXXXX XXXX | Orders & Support | 866 372-7442 support@primorigen.com |
| | <i>For Research Use Only Not intended for use in humans or animals</i> | | Web | www.primorigen.com |

| | |
|--------------------------|------------------------------|
| Pack Size | 10 µg |
| Species | Human |
| Expression System | HEK 293* |
| | Animal-derived product free |
| Molecular Mass | 30 kDa monomer, glycosylated |
| Activity | Typically 2 to 10 ng/mL ED50 |
| Purity | ≥ 95% |
| Endotoxin | ≤ 1 EU/µg |

Background:

Recombinant human Oncostatin M expressed in engineered human cells. OSM is a 30 kDa monomeric glycoprotein and belongs to the IL-6-like protein family. OSM is a growth regulator for human fibroblasts and vascular smooth muscle cells. OSM induces the differentiation of megakaryocytes and is important in bone formation and wound healing. OSM synergizes antiproliferative effects with IFN-gamma and TGF-beta. OSM induces G-CSF and GM-CSF expression.

Note: Representative data are shown below (not Lot-specific).

Formulation:

Lyophilized in PBS.

Reconstitution:

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Storage and Stability:

Lyophilized products are stable for one year at -20°C to -80°C from date of receipt. Store only at -20°C to -80°C in working aliquots. Avoid repeated freeze-thaw cycles.

Quality Control Testing

Assay:

The specific activity was determined by dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line).

Purity Confirmation:

The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

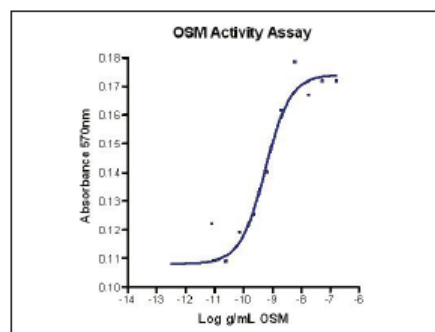
References:

Kitamura, T., et al (1989) J. Cell Physiol. 140, 323-334

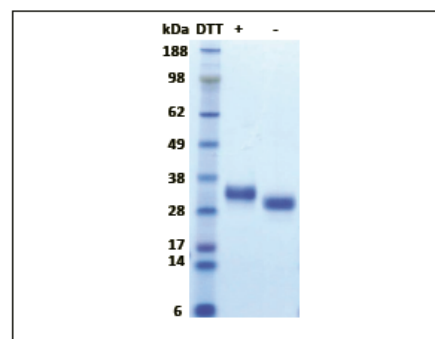
Chen, S., et al (2004) Cytokine Growth Factor Rev 15, 379-391

**All HumanKine™ cytokines are expressed in HEK 293 cells.
HumanKine™ is a trademark of HumanZyme Inc.*

A. Activity Assay



B. SDS-PAGE



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