

Active Recombinant Human OSM, Fc-tagged

Cat. No. OSM-658H **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | The recombinant human OSM-Fc is expressed as a 433-amino acid active form consisting of Ala26 - Arg220 region of (UniProt accession #P13725) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions. |
| Species | Human |
| Source | Human Cells |
| ProteinLength | 26-220 a.a. |
| Form | Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). |
| Bio-activity | Stimulates TF-1 human erythroleukemic cell proliferation assay with an ED50 typically 0.2 - 0.5 ng/ml. Supports the maintenance of embryonic stem (ES) cell pluripotency and germline competency. |
| Molecular Mass | Calculated molecular mass (kDa): 48.7; Estimated by SDS-PAGE under reducing condition (kDa): ~55 |
| AA Sequence | AAIGSCSKEYRVLLGQLQKQTDLMQDTSRLLDPYIRIQGLDVPKLRHCRERPGAFP SEETLRGLGRRGFLQTLN ATLGCVLHRLADLEQRLPKAQDLERSGLNIEDLEKLQM ARNILGLRNNIYCMAQLLDNSDTAEPTKAGRGASQ PPTPTPASDAFQRKLEGCRF LHG YHRFMHSVGRVFSKWGESPNRSRSTTENLYFQGSTGHTCPCPAPELLGG PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPRE EQYNSTYRVVSVLTVLHQ DWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVY |

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TLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNG QPENNYKTTTPVLDSGDSFF
LYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Endotoxin

<0.1 eu="" per="" 1="" µg="" of="" purified="" recombinant="" protein=""
determined="" by="" the="" lal="">

Purity

>95% judged by SDS-PAGE under reducing condition

Storage

The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name

OSM oncostatin M [Homo sapiens]

Official Symbol

OSM

Synonyms

OSM; oncostatin M; oncostatin-M; MGC20461;

Gene ID

5008

mRNA Refseq

NM_020530

Protein Refseq

NP_065391

MIM

165095

UniProt ID

P13725

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|----------------------------|--|
| Chromosome Location | 22q12.2 |
| Pathway | Adipogenesis, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem; |
| Function | cytokine activity; growth factor activity; oncostatin-M receptor binding; |

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