

Active Recombinant Human OSM, His-tagged, Biotinylated

Cat. No. OSM-656H Lot. No. (See product label)

SPECIFICATION

Product Overview	The recombinant human OSM is expressed as a 216-amino acid active form consisting of Ala26 - Arg220 region of(UniProt accession #P13725) and a C-terminal His-tag. Human OSM contains 2 potential N-linked glycosylation sites.
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). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Stimulates TF-1 human erythroleukemic cell proliferation assay with an ED50 typically 0.1 - 0.3 ng/ml. Supports the maintenance of embryonic stem (ES) cell pluripotency and germline competency.
Molecular Mass	Calculated molecular mass (kDa): 24.5; Estimated by SDS-PAGE under reducing condition (kDa): ~35
AA Sequence	AAIGSCSKEYRVLLGQLQKQTDLMQDTSRLLDPYIRIQGLDVPKLRHCRERPGAFP SEETLRGLGRRGFLQTL NATLGCVLHRLADLEQRLPKAQDLERSGLNIEDLEKLQM ARNILGLRNNIYCMAQLLDNSDTAEPTKAGRGAS QPPTPTPASDAFQRKLEGCRF LHGYHRFMHSVGRVFSKWGESPNRSRSTTENLYFQGSTGHHHHHHHH

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA



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.
Conjugation	Biotin

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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