

Active Recombinant Human OSM Protein (210 aa)

Cat. No. OSM-3220 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human Oncostatin M(209 a.a.) (rhOSM) produced in E. coli is a single non-glycosylated polypeptide chain containing 210 amino acids. A fully biologically active molecule, rhOSM has a molecular mass of 23.8 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	210
Description	Oncostatin M (OSM) is a multifunctional cytokine, and belongs to Interleukin-6 (IL-6) subfamily, which also includes IL-11, leukemia inhibitory factor (LIF), ciliary neurotropic factor, cardiotrophin-1, and novel neurotrophin-1. In vivo, OSM is secreted from activated T cells, monocytes, neutrophils, and endothelial cells. OSM is related to LIF, and shares a receptor with LIF in human. Human OSM can bind to gp130 and recruit OSM Receptor β or LIF Receptor β to form a ternary complex. OSM stimulates the growth of different types of cells, including megakaryocytes, fibroblasts, vascular endothelial cells, and T cells. OSM inhibits the proliferation of several cancer cell lines, such as solid tissue tumor cells, lung cancer cells, melanoma cells, and breast cancer cells.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 10 ng/mL, measured by a cell proliferation assay using TF-1 cells,

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corresponding to a specific activity of $> 1 \times 10^5$ units/mg.

Molecular Mass 23.8 kDa, observed by reducing SDS-PAGE.

AA Sequence
 MAAIGSCSKEYRVLLGQLQKQTDLMQDTSRLDPYIRIQGLDVPKLRHCRERPGAF
 PSEETLRGLGRRGFLQTLNATLGCVLHRLADLEQRLPKAQDLERSGLNIEDLEKLQM
 ARPNILGLRNNIYCMAQLLDNSDTAEPTKAGRGASQPPTPTPASDAFQRKLEGCRFL
 HGYHRFMHSVGRVFSKWGESPNRSRRHSPHQALRKGVRR

Endotoxin < 0.2 EU/ μ g, determined by LAL method.

Purity $> 95\%$ as analyzed by SDS-PAGE and HPLC.

Storage Lyophilized recombinant human Oncostatin M(209 a.a.) (rhOSM) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhOSM should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.

Storage Buffer Lyophilized after extensive dialysis against PBS.

Reconstitution Reconstituted in ddH₂O or PBS at 100 μ g/mL.

GENE INFORMATION

Gene Name OSM oncostatin M [Homo sapiens]

Official Symbol OSM

Synonyms OSM; oncostatin M; oncostatin-M; MGC20461;

Gene ID 5008

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mRNA Refseq	NM_020530
Protein Refseq	NP_065391
MIM	165095
UniProt ID	P13725

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