

Active Recombinant Human OSM Protein

Cat. No. OSM-307H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human OSM Protein without tag was expressed in E. coli.

Species Human

Source E.coli

Description Oncostatin M (OSM) is a multifunctional cytokine that belongs to the Interleukin-6 subfamily. Among the family members, OSM is most closely related to leukemia inhibitory factor (LIF) and it in fact utilizes the LIF receptor in addition to its specific receptor in the human. A biologically active OSM receptor has been previously described that consists of a heterodimer of leukemia inhibitory factor receptor (LIFR) and gp130. OSM is synthesized by stimulated T-cells and monocytes. The effects of OSM on endothelial cells suggest a pro-inflammatory role for OSM and endothelial cells possess a large number of OSM receptors. Recombinant murine OSM contains 181 amino acids and has a molecular mass of 20.4 kDa. It has approximately 48 % and 72 % amino acid sequence identity with human and rat OSM.

Form Sterile Filtered White lyophil

Bio-activity Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human TF-1 cells is less than 2 ng/mL, corresponding to a specific activity of $> 5.0 \times 10^5$ IU/mg.

Molecular Mass Approximately 25.8 kDa

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AA Sequence	AAIGSCSKEYRVLLGQLQKQTDLMQDTSRLLDPYIRIQGLDVPKLRHCRERPGAFP SEETLRGLGRRGFLQTLNATLGCVLHRLADLEQRLPKAQLERSGLNIEDLEKLQMA RPNILGLRNNIYCMAQLLDNSDTAEPTKAGRGASQPPTPTPASDAFQRKLEGCRFLH GYHRFMHSVGRVFSKWGESPNRSRRHSPHQALRKGVRRTTRPSRKGRKRLMTRGQL PR
Endotoxin	Less than 1 EU/ag of rHuOSM as determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze thaw cycles.
Storage Buffer	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL.

GENE INFORMATION

Gene Name	OSM oncostatin M [Homo sapiens (human)]
Official Symbol	OSM
Synonyms	OSM; oncostatin M; oncostatin-M; MGC20461;
Gene ID	5008

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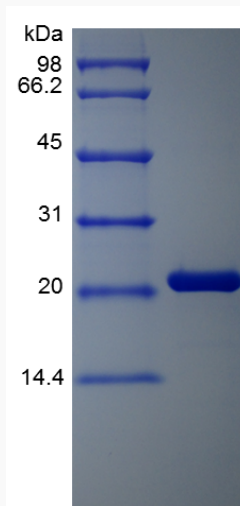
mRNA Refseq [NM_020530](#)

Protein Refseq [NP_065391](#)

MIM [165095](#)

UniProt ID [P13725](#)

SDS-PAGE



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