

## Recombinant Human Oncostatin-M (rHu OSM)

Catalog No: #70308

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## Description

Product Name	Recombinant Human Oncostatin-M (rHu OSM)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Species Reactivity	Hu
Target Name	rHu OSM
Other Names	Oncostatin M
Accession No.	accession:P13725 GeneID:5008
Uniprot	P13725
GeneID	5008;
Calculated MW	Approximately 25.8 kDa, a sing
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	AAIGSCSKEY RVLLGQLQKQ TDLMQDTSRL LDPYIRIQGL DVPKLRHCR ERPGAFPSEE TLRGLGRRGF LQTLNATLGC VLHRLADLEQ RLPKAQDLER SGLNIEDLEK LQMARPNI LG LRNNIYCMAQ LLDNSDTAEP TKAGRGASQP PTPTPASDAF QRKLEGCRFL HGYHRFMHSV GRVFSKWGES PNRSRRHSPH QALRKGVRRT RPSRKGKRLM TRGQLPR
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze thaw cycles.

## Background

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.

## References

1. Tanaka M, Miyajima A. 2003. Rev Physiol Biochem Pharmacol. 149:39-52.
2. Mosley B, De Imus C, Friend D, et al. 1996. J Biol Chem. 271:32635-43.
3. Malik N, Kallestad JC, Gunderson NL, et al. 1989. Mol Cell Biol. 9:2847-53.
4. Brown TJ, Rowe JM, Liu JW, et al. 1991. J Immunol. 147:2175-80.

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Note: This product is for in vitro research use only