

Recombinant Human Oncostatin M (rh OSM)

Introduction: Oncostatin M is a member of a cytokine family that includes leukemia-inhibitory factor, granulocyte colony-stimulating factor and interleukin 6. This gene encodes a growth regulator which inhibits the proliferation of a number of tumor cell lines. It regulates cytokine production, including IL-6, G-CSF and GM-CSF from endothelial cells.

Description: Recombinant human OSM produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 227 amino acids and having a molecular mass of 26 kDalton. rh OSM is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: The protein was lyophilized from a concentrated (1 mg/ml) solution containing PBS, pH 7.4. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh OSM in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh OSM although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh OSM should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by RP-HPLC and by SDS-PAGE

Amino acid Sequence: AAIGSCSKEY RVLLGQLQKQ TDLMQDTSRL LDPYIRIQGL DVPKLREHCR
ERPGAFPSEE TLRGLGRRGF LQTLNATLGC VLHRLADLEQ RLPKAQDLER SGLNIEDLEK LQMARPNI LG
LRNNIYCMAQ LLDNSDTAEP TKAGRGASQP PTPASPDAF QRKLEGCRFL HGYHRFMHSV GRVFSKWGES
PNRSRRHSPH QALRKGVRRRT RPSRK GKRLM TRGQLPR

Biological Activity: The ED₅₀, as determined by the dose-dependant stimulation of human TF-1 cells is < 2 ng/ml, corresponding to a specific activity of 5 x 10⁵ IU/mg.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11344022
<i>medium</i>	10 µg	Cat.N°	11344023
<i>large</i>	50 µg	Cat.N°	11344025

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