

## Recombinant Human Oncostatin M 209 a.a. (rh OSM 209a.a.)

**Synonyms:** OSM, MGC20461, Oncostatin M.

**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 209 a.a. produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 209 amino acids and having a molecular mass of 23.9 kDalton. rh OSM 209a.a. is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*

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

**Formulation:** Lyophilized from a 0.22 µm filtered solution containing PBS.  
The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rh OSM 209a.a. in sterile H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rh OSM 209a.a. although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh OSM 209a.a. 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:** 95 % (verified by SDS-PAGE / silver stain)

**Amino acid Sequence:** AAIGSCSKEY RVLLGQLQKQ TDLMQDTSRL LDPYIRIQGL DVPKLRHCR  
ERPGAFPSEE TLRGLGRRGF LQTLNATLGC VLHRLADLEQ RLPKAQDLER SGLNIEDLEK LQMARNILG  
LRNNIYCMAQ LLDNSDTAEP TKAGRGASQP PTPASPDAF QRKLEGCRFL HGYHRFMHSV GRVFSKWGES  
PNRSRRHSPH QALRKGVRRT RPSRK GKRLM TRGQLPR

**Biological Activity:** The ED<sub>50</sub>, as determined by the dose-dependant stimulation of human TF-1 cells is < 2 ng/ml, corresponding to a specific activity of 5x10<sup>5</sup> IU/mg.

**Endotoxicity:** The endotoxin level is less than 1 EU / µg determined by LAL method.

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°	11344222
<i>medium</i>	10 µg	Cat.N°	11344223
<i>large</i>	50 µg	Cat.N°	11344225
<i>x-large</i>	250 µg	Cat.N°	11344227

**ImmunoTools** Excellent Quality - Advantageously priced

Gladiolenweg 2; 26169 Friesoythe; Germany  
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, [info@immunotools.com](mailto:info@immunotools.com)  
[www.immunotools.com](http://www.immunotools.com)