OSM
Recombinant Mouse Oncostatin-M

Catalog No.	CRM021A	**Quantity:**	2 µg
	CRM021B		10 µg
	CRM021C		1 mg

Alternate Names: OncoM

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. Furthermore, 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 mouse 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.

Recombinant Mouse Oncostatin-M a single non-glycosylated polypeptide chain containing 181 amino acids.

Gene ID: 18413

Source: *E.coli*

Molecular Weight: 20.4 kDa

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 2×PBS, pH 7.4, + 5% trehalose.

Purity: >96% by SDS-PAGE and HPLC analyses.

Endotoxin Level: <1 EU/µg as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED_{50} as determined by a cell proliferation assay using murine NIH-3T3 cells is less than 1.0 ng/ml.

Specific Activity: >1.0×10^6 IU/mg.

Amino Acid Sequence: NRGCSNSSSQ LLSQLQNQAN LTGNTESLLE PYIRLQNLNT PDLRAACTQH SVAFPSEDTL RQLSKPHFLS TVYTTLDRVL YQLDALRQKF LKTPAFPKLD SARHNILGIR NNVFCMARLL NHSLEIPEPT QTDSGASRST TTPDVFNTKI GSCGFLWGYH RFMGSVGRVF REWDDGSTRS R

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After 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 -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. **Avoid repeated freeze/thaw cycles.**

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