

OSM

Recombinant Rat Oncostatin-M

Catalog No.	CRR003A CRR003B CRR003C	Quantity:	2 µg 10 µg 1 mg
Description:	<p>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. Rat OSM contains 215 amino acids and has approximately 48% and 72% amino acid sequence identity with human and mouse OSM. Recombinant Rat Oncostatin-M a single non-glycosylated polypeptide chain containing 214 amino acids.</p>		
Gene ID:	289747		
Source:	<i>E.coli</i>		
Molecular Weight:	24.3 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 2× PBS + 0.1% Tween-80.		
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 2.0 ng/ml.		
Specific Activity:	>5 × 10 ⁵ IU/mg.		
Amino Acid Sequence:	KRGCSSSSPK LLSQLKSQAN ITGNTASLLE PYILHQNLNT LTLRAACTEH PVAFPSEDML RQLSKPDFLS TVHATLGRVW HQLGAFRQQF PKIQDFPELE RARQNIQGIR NNVYCMARLL HPPLEIPEPT QADSGTSRPT TTAPGIFQIK IDSCRFLWGY HRFMGSVGRV FEEWGDGSRR SRRHSPLWAW LKGDHRIRPS RSSQSAMLRS LVPR		
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:	<p>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.</p> <p>Avoid repeated freeze/thaw cycles.</p>		

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