

Mouse Oncostatin M (OSM) Protein

Cat #: PRP1307

Size: 5ug/20ug/100ug/1mg

Product Information

	Product Name: Mouse Oncostatin M (OSM) Protein		
REF	Catalog Number: PRP1307	LOT	Lot Number: Refer to product label
	Purity: > 99 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E. coli</i>
	Shipping: The product is shipped at ambient temperature.		

Background: Oncostatin M (OSM) is a glycoprotein belonging to the interleukin-6 family of cytokines that has functions mainly in cell growth. Oncostatin M (OSM) is considered as a pleiotropic cytokine that signals through cell surface receptors type I and type II both of which share the similarity of containing protein gp130 and takes part in many bio metabolism processes including liver development, hematopoiesis, inflammation, bone formation, and destruction and possibly CNS development. Oncostatin M (OSM) was previously identified by its ability to inhibit the growth of cells from melanoma and other solid tumors. It also has been reported that OSM, like LIF, IL-6, and G-CSF, can inhibit the proliferation of murine M1 myeloid leukemic cells and can induce their differentiation into macrophage-like cells. The human form of OSM is insensitive between pH2 and 11 and resistant to heating for one hour at 56 degrees but is not stable at 90 degrees. The human OSM is produced as a precursor containing 252 amino acids, whose first 25 amino acids function as a secretory signal peptide and which on removal yields the soluble 227 amino acid pro-OSM. Removal of the C-terminal most 31 amino acids produces the fully active 196 residue form.

Sequence: Amino acid sequence derived from Mouse Oncostatin M (OSM) Protein (P53347) (Ala24-Arg206) was expressed.

Protein length: The Recombinant Mouse Oncostatin M (OSM) Protein consists of 183 amino acids and predicts a molecular mass of 20.39KDa

Biological Activity: Testing in progress.

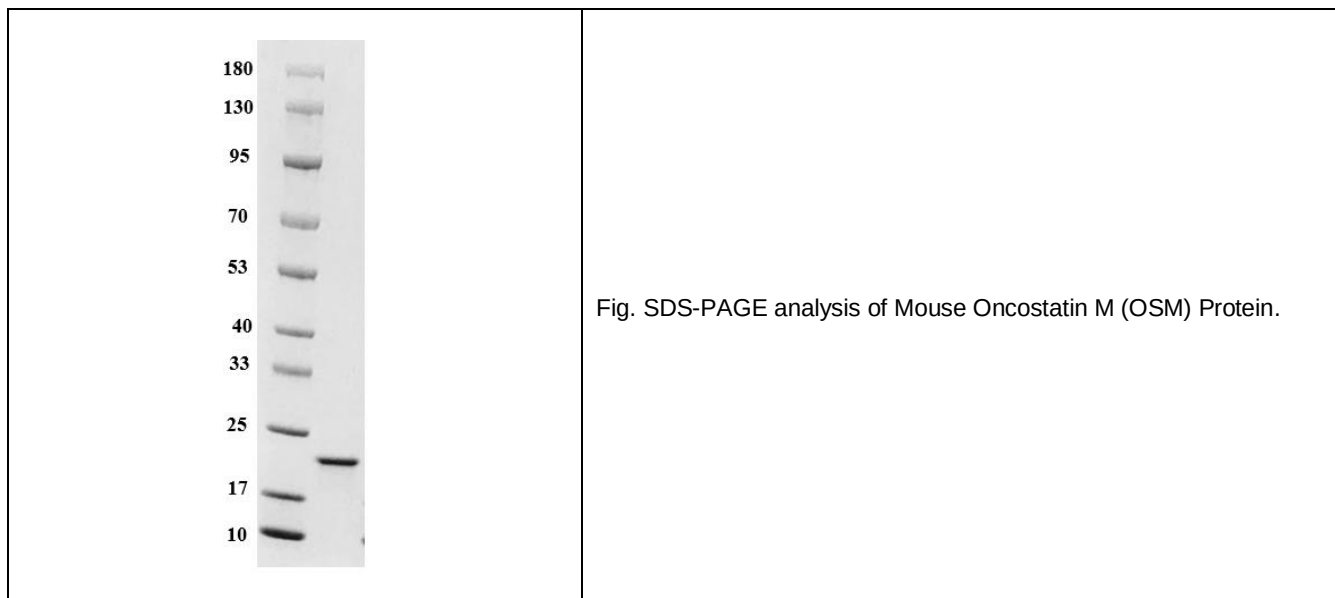
Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile 20 mM Tris with 150 mM NaCl, pH 7.4.

Storage Instructions: Lyophilized Mouse Oncostatin M (OSM) Protein product should be stored desiccated below -20°C.

Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Mouse Oncostatin M (OSM) Protein using the buffer we provided not less than 100µg/ml, which can then be further diluted to other aqueous solutions.



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