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Human OSM Protein

Cat #:PRP1948 Size: 5 μg/20 μg/100 μg/1 mg

Product Information

	Product Name: Human OSM Protein		
REF	**Catalog Number:** PRP1948	LOT	**Lot Number:** Refer to product label
	Purity: > 96 % as determined by SDS-PAGE		
	Storage: Store at -20°C		**Preparation method:** E. coli
	Shipping: The product is shipped at ambient temperature.		

Background: Oncostatin M (OSM) is a growth and differentiation factor that participates in the regulation of neurogenesis, osteogenesis and hematopoiesis. Produced by activated T cells, monocytes and Kaposi's sarcoma cells, OSM can exert both stimulatory and inhibitory effects on cell proliferation. It stimulates the proliferation of fibroblasts, smooth muscle cells and Kaposi's sarcoma cells, but inhibits the growth of some normal and tumor cell lines. It also promotes cytokine release (e.g. IL-6, GM-CSF and G-CSF) from endothelial cells, and enhances the expression of low-density lipoprotein receptors in hepatoma cells. OSM shares several structural and functional characteristics with LIF, IL-6, and CNTF. Human OSM is active on murine cells. Recombinant Human Oncostatin M is a 25.7 kDa protein, containing 227 amino acid residues (full length precursor).

Sequence: Amino acid sequence derived from Human OSM (P13725) (Ala26-Arg252) was expressed.

Protein length: The recombinant Human OSM consists of 227 amino acids and predicts a molecular mass of 25.7 kDa.

Biological Activity: Measured by its ability to induce proliferation in TF-1 cells. The ED_{50} for this effect is 0.4436 ng/mL.

Endotoxin: < 0.1 EU per μg of the protein as determined by the LAL method.

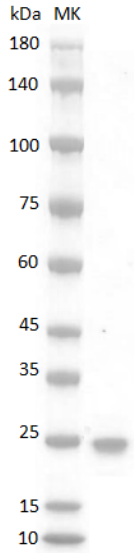
Formulation: Lyophilized from 20mM Tris, 150mM NaCl, pH 8.0.

Storage Instructions: Lyophilized 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 protein using the

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buffer we provided not less than 100 μg/ml, which can then be further diluted to other aqueous solutions.

	Fig. SDS-PAGE analysis of Human OSM Protein.

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