OSM
Recombinant Human Oncostatin M

Catalog No.	CRH486A	**Quantity:**	20 µg
	CRH486B		100 µg
	CRH486C		1.0 mg

Alternate Names: Oncostatin-M, OSM

Description: Oncostatin M (OSM) is a glycoprotein belonging to the interleukin-6 family of cytokines that has functions mainly in cell growth. OSM is considered as a pleiotropic cytokine that signals through cell surface receptors type I and type II both of which share the cell similarity of containing protein gp13 and takes part in many biometabolism processes including liver development, haematopoeisis, inflammation, bone formation and destruction and possibly CNS development. 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, has the ability to 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 degree but is not stable at 9 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-teminal most 31 amino acids produces the fully active 196 residue form.

UniProt ID: P13725

Accession Number: NP_065391.1

Protein Construction: A DNA sequence encoding the human OSM (Met1-Arg221) was expressed.

Source: HEK293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: Predicted 22.2 kDa, (196 aa)

Purity: > 95 % as determined by SDS-PAGE

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

Biological Activity: Measured in a cell proliferation assay using TF-1 human erythroleukemic cells.
The ED50 for this effect is typically 0.2-1 ng/mL.

Predicted N-terminal: Ala 26

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

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Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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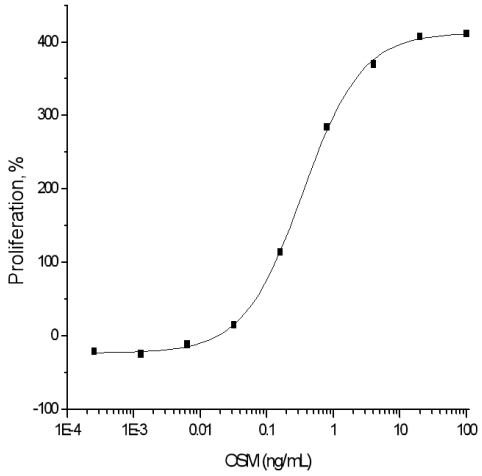
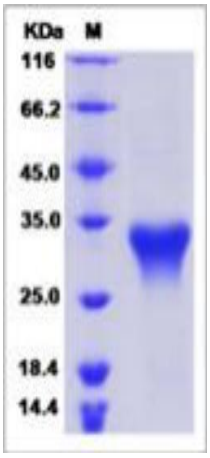


SDS-PAGE



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