

Oncostatin M/OSM Recombinant Protein | OSM recombinant protein

Oncostatin M/OSM Protein, Human, Recombinant

CATALOG #
AAA257422

HOST
HEK293 Cells

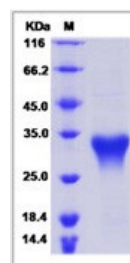
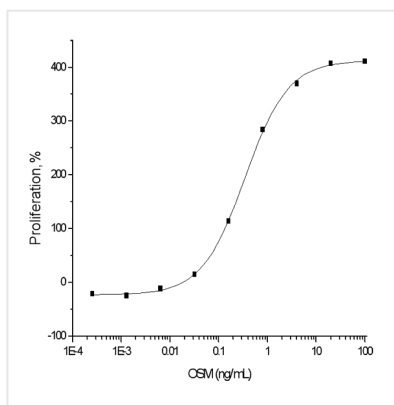
PRODUCT SYNONYMS

Oncostatin M/OSM; Oncostatin M/OSM Protein; Human; Recombinant; Human Oncostatin M/OSM Protein; oncostatin M; OSM recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95 % as determined by SDS-PAGE.
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	196aa
Sequence	Met1-Arg22 1
Species	Human
Endotoxin	<1.0EU per ug protein as determined by the LAL method
Predicted N Terminal	Ala26
Protein Construction	JA DNA sequence encoding the human OSM (NP_065391.1) (Met1-Arg221) was expressed
Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is typically 0.2-1ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack

IMAGES



Application Data

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ADDITIONAL INFORMATION

Related Product Information for OSM recombinant protein	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 typeI and typeII 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.
References	Tanaka M, et al. (2003) Oncostatin M, a multifunctional cytokine. Rev Physiol Biochem Pharmacol. Reviews of Physiology, Biochemistry and Pharmacology. 149: 39-52.Auguste P, et al. (1997) Signaling of type II oncostatin M receptor. J Biol Chem. 272 (25): 15760-4.Zarling JM, et al. (1986). Oncostatin M: a growth regulator produced by differentiated histiocytic lymphoma cells. Proc Natl Acad Sci. 83 (24): 9739-43.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10092621
NCBI GeneID	5008
NCBI Accession #	NP_065391.1
NCBI GenBank Nucleotide #	NM_020530.4
UniProt Accession #	P13725; Q6FHP8; Q9UCP6
Molecular Weight	28,484 Da
NCBI Official Full Name	oncostatin-M preproprotein
NCBI Official Synonym Full Names	oncostatin M
NCBI Official Symbol	OSM
NCBI Protein Information	oncostatin-M
UniProt Protein Name	Oncostatin-M
UniProt Gene Name	OSM
UniProt Synonym Gene Names	OSM
UniProt Entry Name	ONCM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.