

Active Recombinant Mouse Osm Protein

Cat. No. Osm-168O **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Osm Protein without tag was expressed in HEK 293.
Species	Mouse
Source	HEK293
Description	Oncostatin-M, also known as OSM, is a growth regulator belonging to the interleukin-6 group of cytokines. It is expressed mainly by monocytes, activated T cells and Kaposi's sarcoma cells. OSM signals through two types of receptors; one is composed of gp130 and LIFR, and the other is composed of gp130 and OSMR. OSM regulates IL-6, G-CSF and GM-CSF production, and thus is involved in hematopoiesis, neurogenesis and osteogenesis. OSM displays both stimulatory and inhibitory effects, so its categorization as pro-inflammatory or anti-inflammatory cytokine is still controversial.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.4 ng/mL, measured in a cell proliferation assay using NIH-3T3 cells.
Molecular Mass	10-40 kDa, observed by reducing SDS-PAGE.
AA Sequence	ANRGCSNSSSQLLSQLQNQANLTGNTESLLEPYIRLQNLNTPDLRAACTQHSVAFPS EDTLRQLSKPHFLSTVYTTLDRLVLYQLDALRQKFLKTPAFPKLDSARHNILGIRNNVF CMARLLNHSLEIPEPTQTDGASRSTTPDVFN TKIGSCGFLWGYHRFMGSGVGRVF REWDDGSTRSRR

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Murine Oncostatin-M remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Murine Oncostatin-M should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.
GENE INFORMATION	
Gene Name	Osm oncostatin M [Mus musculus]
Official Symbol	Osm
Synonyms	OSM; oncostatin M; oncostatin-M; OncoM;
Gene ID	18413
mRNA Refseq	NM_001013365
Protein Refseq	NP_001013383
UniProt ID	P53347

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