

RECOMBINANT MOUSE OSM

Catalog # 02752

25 mg per vial

PRODUCT DESCRIPTION:

Oncostatin M (OSM) is a pleiotropic cytokine produced by activated T cells, monocytes, and Kaposi's sarcoma cells. OSM inhibits the growth of some tumour and normal cell lines, simulates fibroblast, smooth muscle and Kaposi's sarcoma cell proliferation, cytokine release from endothelial cells and low density lipoprotein receptor expression on hepatoma cells. Mouse OSM was recently cloned and identified as an immediate early gene induced in various myeloid and lymphoid cell lines by a subset of cytokines including IL-2, IL-3, GM-CSF and EPO. Mouse OSM cDNA encodes a 263 amino acid pre-pro-OSM polypeptide with a 25 residue signal peptide and a hydrophilic C-terminal domain that are proteolytically processed to generate the mature OSM protein. Mouse OSM binds to OSM-R α -chain and gp130 subunit.

SOURCE:

A DNA sequence encoding the mature, C-terminal truncated form of mouse OSM, corresponding to amino acid residues 26 - 207, was expressed in *E. coli*.

PURITY:

Greater than 97%, as determined by SDS-PAGE and visualized by silver stain. Endotoxin level is less than 0.1 ng per μ g of the cytokine as determined by the LAL method.

FORMULATION:

Lyophilized from a sterile filtered solution in PBS, containing 50 μ g of bovine serum albumin per 1 μ g of cytokine.

RECONSTITUTION:

It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 25 μ g/mL.

STABILITY/STORAGE:

Lyophilized samples are stable for greater than six months at -20° C to -70° C.

Upon reconstitution, mouse OSM can be stored under sterile conditions at 2° - 4° C for one month or at -20° C to -70° C for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles.

ACTIVITY:

Biological activity was measured as the ability to stimulate ³H-thymidine incorporation in quiescent NIH/3T3 cells. The ED₅₀ for this effect was typically 2 - 4 ng/mL.

**THIS REAGENT IS FOR RESEARCH USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**