RECOMBINANT HUMAN ONCOSTATIN (hOSM)

Catalog # 02644	**10 µg per vial**
Catalog # 02844	**50 µg per vial**

PRODUCT DESCRIPTION:

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. Human OSM cDNA encodes a 252 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 196 residue mature OSM protein. OSM binds to LIF-R α-chain and gp130 subunit.

SOURCE:

A DNA sequence encoding the mature, C-terminal processed, 196 amino acid residue form of human OSM was expressed in *E. coli.*

PURITY:

Greater than 97%, as determined by SDS-PAGE and visualized by silver stain. Endotoxin level less than 0.1 ng per 1 µg of the cytokine as determined by the LAL method.

FORMULATION:

Lyophilized from a 0.2 µm filtered solution in 35% acetonitrile plus 0.1% TFA containing 50 µg of bovine serum albumin per 1 µg of cytokine.

RECONSTITUTION:

It is recommended that sterile phosphate-buffered saline 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 10 µg/mL.

STABILITY/STORAGE:

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

Reconstituted OSM can be stored under sterile conditions at 2ºC to 4ºC for one month or at -20ºC to -70ºC for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles.

ACTIVITY:

Activity was determined in a cell proliferation assay using a factor-dependent human erythroleukemic cell line, TF-1 and the ED_{50} for this effect was typically 0.15 - 0.3 ng/mL.

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

STEMCELL TECHNOLOGIES INC
777 West Broadway, Suite 808
Vancouver, British Columbia
CANADA V5Z 4J7
Tel: (604) 877-0713 Toll-free Tel: 1-800-667-0322
Fax: (604) 877-0704 Toll-free Fax: 1-800-567-2899
Website: www.stemcell.com E-mail: info@stemcell.com
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