

Recombinant mouse OSM

Catalog No: #AG0048

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Description

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| Product Name | Recombinant mouse OSM |
| Host Species | HEK293 |
| Purification | > 95% by Tris-Bis PAGE;> 95% by SEC-HPLC |
| Immunogen Description | Asn25-Arg206 |
| Target Name | OSM |
| Other Names | Mouse oncostatin M; Mouse oncostatin-M; ,mOSM |
| Accession No. | Uniprot:P53347Gene ID:18413 |
| Uniprot | P53347 |
| GeneID | 18413 |
| Target Species | mouse |
| Calculated MW | 20.5 KDa |
| Tag Info | additional amino acid free |
| Formulation | 0.22 µm filtered solution of PBS, pH 7.4. |
| Storage | Aliquot and store at -80°C. Avoid repeated freeze/thaw cycles. |

Background

Oncostatin M (OSM) is a member of a cytokine subfamily that includes IL-6, IL-11, LIF, CNTF, and cardiotrophin-1. These cytokines have overlapping biological functions and shared receptor components. Mouse OSM was 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. The mouse OSM cDNA encodes a 263 amino acid residue precursor protein that shows 48% identity with human OSM. Similar to human OSM, the C-terminal region of mouse OSM contains a highly charged region. Deletion of this C-terminal region appears to be essential for the formation of biologically active mOSM.

The biological activity of human OSM has been shown to be mediated either by the LIF/OSM receptor complex composed of gp130 and LIF R alpha or by a human OSM specific receptor composed of gp130 and OSM R alpha. It remains to be determined if the biological activities of mouse OSM can also be mediated by both receptor complexes in mouse cells.

Note: This product is for in vitro research use only