

# Active Recombinant Mouse Osm Protein, His-tagged

**Cat. No.** Osm-841M    **Lot. No.** (See product label)

## SPECIFICATION

|                             |                                                                                                                                                                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant mature form of mouse OSM (P53347) (Met 1-Arg 206) was expressed, with a C-terminal polyhistidine tag.                                                                                                                                                  |
| <b>Species</b>              | Mouse                                                                                                                                                                                                                                                              |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>        | 1-206 a.a.                                                                                                                                                                                                                                                         |
| <b>Predicted N Terminal</b> | Asn 25                                                                                                                                                                                                                                                             |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.                                                                                                                                                                                                |
| <b>Bio-activity</b>         | 1. Measured by its ability to inhibit the proliferation of M1 mouse myeloid leukemia cells. The ED50 for this effect is typically 50-200 ng/mL. 2. Measured in a cell proliferation assay using NIH3T3 cells. The ED50 for this effect is typically 0.8-4 ng/mL    |
| <b>Molecular Mass</b>       | The secreted recombinant mouse OSM comprises 193 amino acids and has a calculated molecular mass of 22 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 35-40 kDa in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                                    |

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|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >95 % as determined by SDS-PAGE.                                                                                                                                               |
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                      |
| <b>Storage</b>        | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                      |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Osm oncostatin M [ <i>Mus musculus</i> ]                                                                                                                                                                                                                        |
| <b>Official Symbol</b> | Osm                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>        | OSM; oncostatin M; oncostatin-M; OncoM;                                                                                                                                                                                                                         |
| <b>Gene ID</b>         | 18413                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_001013365                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>  | NP_001013383                                                                                                                                                                                                                                                    |
| <b>MIM</b>             |                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>      |                                                                                                                                                                                                                                                                 |
| <b>Pathway</b>         | Adipogenesis, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathwa |

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**Function**

cytokine activity; cytokine activity; growth factor activity; oncostatin-M receptor binding;

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