

## Oncostatin M (OSM) Active Protein | OSM active protein

Active Oncostatin M (OSM)

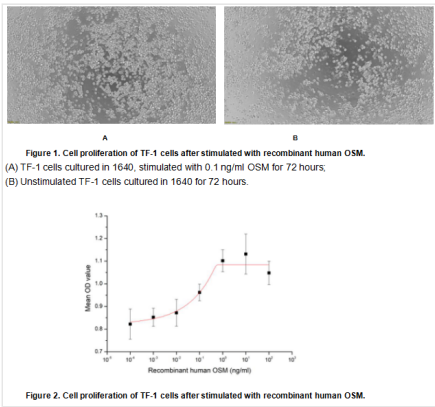
|                               |                          |                                                     |
|-------------------------------|--------------------------|-----------------------------------------------------|
| CATALOG #<br><b>AAA161690</b> | HOST<br><b>293F cell</b> | APPLICATIONS<br><b>Activity Assay, Cell Culture</b> |
|-------------------------------|--------------------------|-----------------------------------------------------|

### PRODUCT SYNONYMS

Oncostatin M (OSM); Active Oncostatin M (OSM); Oncostatin M; OSM active protein (eukaryotic; 293F cell); Human; OS-M4; OSM active protein

### PRODUCT SPECIFICATIONS

|                                                |                                                                                              |
|------------------------------------------------|----------------------------------------------------------------------------------------------|
| Host                                           | 293F cell                                                                                    |
| Purity/Purification                            | Greater than 95% by SDS-PAGE                                                                 |
| Form/Format                                    | Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| Sequence                                       | Ala26~Arg2 20                                                                                |
| Applicable Applications for OSM active protein | Activity Assay, Cell Culture                                                                 |
| Species                                        | Human                                                                                        |
| Expression System                              | Eukaryotic expression                                                                        |
| Tag                                            | N-terminal His Tag                                                                           |
| Endotoxin Level                                | <1.0EU per 1ug (determined by the LAL method)                                                |
| Isoelectric Point                              | 9.4                                                                                          |
| Research Area                                  | Cytokine, Tumor immunity                                                                     |
| Preparation and Storage                        | Store at 2-8 degree C for one month, -80 degree C for 12 months                              |

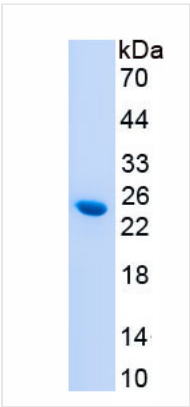


Bioactivity

Oncostatin M (OSM) is an approximately 30 KDa secreted cytokine belonging to the Interleukin-6 family. Like other members of the IL-6 family such as IL-11, CNTF, and Cardiotrophin-1, OSM plays crucial roles in inflammation, neuroprotection, hematopoiesis, metabolism and development. To test the effect of OSM on cell proliferation, TF-1 cells were seeded into triplicate wells of 96-well plates at a density of 20,000 cells/well with various concentrations of recombinant human OSM. After incubated for 72 hours, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8(CCK-8). Briefly, 10 ul of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37 degree C. Proliferation of TF-1 cells after incubation with OSM for 72 hours observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant human OSM for 72 hours. The result was shown in Figure 2. It was obvious that recombinant human OSM significantly increased cell viability of TF-1 cells, the EC50 was 0.08 ng/ml.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

|                                                  |                 |
|--------------------------------------------------|-----------------|
| Product Categories/Family for OSM active protein | Active proteins |
|--------------------------------------------------|-----------------|

NCBI AND UNIPROT INFORMATION

|                                  |                            |
|----------------------------------|----------------------------|
| NCBI GI #                        | 10092621                   |
| NCBI GeneID                      | 5008                       |
| NCBI Accession #                 | NP_065391.1                |
| NCBI GenBank Nucleotide #        | NM_020530.4                |
| UniProt Accession #              | P13725; Q6FHP8; Q9UCP6     |
| Molecular Weight                 | 28,484 Da                  |
| NCBI Official Full Name          | oncostatin-M preproprotein |
| NCBI Official Synonym Full Names | oncostatin M               |
| NCBI Official Symbol             | OSM                        |
| NCBI Protein Information         | oncostatin-M               |
| UniProt Protein Name             | Oncostatin-M               |
| UniProt Gene Name                | OSM                        |
| UniProt Synonym Gene Names       | OSM                        |
| UniProt Entry Name               | ONCM_HUMAN                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/293f-active-protein/oncostatin-m-osm/161690>