

## Product datasheet for **TP723340**

### Oncostatin M (OSM) (NM\_020530) Human Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Purified recombinant protein of Human oncostatin M (OSM).   |
| Species:                              | Human   |
| Expression Host:                      | E. coli   |
| Expression cDNA Clone or AA Sequence: | AAIGSCSKEY RVLLGQLQKQ TDLMQDTSRL LDPYIRIQGL DVPKLREHCR ERPGAFPSEE<br>TLRGLGRRGF LQTLNATLGC VLHRLADLEQ RLPKAQDLER SGLNIEDLEK LQMARNILG<br>LRNNIYCMAQ LLDNSDTAEP TKAGRGASQP PTPTPASDAF QRKLEGCRFL HGYHRFMHSV<br>GRVFSKWGES PNRSRRHSPH QALRKGVRR |
| Tag:                                  | Tag Free  |
| Predicted MW:                         | 23.6 kDa  |
| Concentration:                        | lot specific  |
| Purity:                               | >95% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:                               | Lyophilized from a 0.2 $\mu$ M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2   |
| Bioactivity:                          | ED50 as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is less than or equal to 2.0 ng/ml, corresponding to a specific activity of $> 5 \times 10^5$ units/mg.   |
| Endotoxin:                            | Endotoxin level is $< 0.1$ ng/ $\mu$ g of protein ( $< 1$ EU/ $\mu$ g)  |
| Storage:                              | Store at $-80^{\circ}\text{C}$ .  |
| Stability:                            | Stable for at least 6 months from date of receipt under proper storage and handling conditions.   |
| RefSeq:                               | <a href="#">NP_065391</a>   |
| Locus ID:                             | 5008  |
| UniProt ID:                           | <a href="#">P13725</a>  |
| RefSeq Size:                          | 1869  |
| Cytogenetics:                         | 22q12.2   |
| RefSeq ORF:                           | 756   |



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**Summary:**

This gene encodes a member of the leukemia inhibitory factor/oncostatin-M (LIF/OSM) family of proteins. The encoded preproprotein is proteolytically processed to generate the mature protein. This protein is a secreted cytokine and growth regulator that inhibits the proliferation of a number of tumor cell lines. This protein also regulates the production of other cytokines, including interleukin 6, granulocyte-colony stimulating factor and granulocyte-macrophage colony stimulating factor in endothelial cells. This gene and the related gene, leukemia inhibitory factor, also present on chromosome 22, may have resulted from the duplication of a common ancestral gene. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway

**Protein Pathways:**

Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

**Product images:**