

## 32-7084: Recombinant Human Oncostatin M/OSM (N-6His)

**Gene :** OSM  
**Gene ID :** 5008  
**Uniprot ID :** P13725

### Description

Source: E.coli.  
MW :24.44kD.

Recombinant Human Oncostatin M is produced by our E.coli expression system and the target gene encoding Ala26-Arg221 is expressed with a 6His tag at the N-terminus. Oncostatin M (OSM) is a glycoprotein belonging to the interleukin-6 family of cytokines that includes leukemia-inhibitory factor, granulocyte colony-stimulating factor, and interleukin 6. OSM encodes a growth regulator, which inhibits the proliferation of a number of tumor cell lines. It stimulates proliferation of AIDS-KS cells. OSM regulates cytokine production, including IL-6, G-CSF and GM-CSF from endothelial cells. OSM is considered as a pleiotropic cytokine that initiates its biological activities through specific cell surface receptors. The low affinity LIF receptor that shares the similarity of containing protein gp130 has now been identified to be a component of a high- affinity OSM receptor that will transduce OSM signals. OSM has also been shown to play a role in both pro and anti-inflammatory actions. OSM may also be involved in many biometabolism processes including liver development, haematopoiesis, inflammation, bone formation and destruction and possibly CNS development.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** MGSSHHHHHSSGLVPRGSHMAAIGSCSKEYRVLLGQLKQTDLMQDTSRLLDPYIRIQGLDVPKLRHCRER  
PGAFPSEETLRGLGRRGFLQTLNATLGCVLHRLADLEQRLPKAQDLERSGLNIEDLEKLQMARPNILGLRNNIYC  
MAQLLDNSDTAEPTKAGRGASQPPTTPASDAFQRKLEGCRFLHGYHRFMHSVGRVFSKWGESPNRSRR

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.