

Product: **Recombinant Human OSM**
Cat #: 300-224P
 Powder

Description	Oncostatin M (OSM) is a growth regulator produced by a variety of cells and has a wide range of attributed functions. Several of these functions include: inhibition of tumor cell line proliferation, liver development/regeneration, regulation of cytokine production (hematopoiesis and inflammation), bone development and possibly nervous system development. Alternate names: Onc-M
MW	Non-glycosylated protein, containing 210 amino acids, with a molecular weight of 23.8 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Lyophilized from a sterile filtered aqueous solution containing 10 mM Na ₃ PO ₄ , pH 7.5
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by the ability to induce proliferation of TF-1 cells and is typically less than 0.20 ng/mL. This corresponds to an expected specific activity of 5 x 10 ⁶ units/mg.
Endotoxin Level	Measured by kinetic LAL analysis and is typically < 1 EU/μg protein.
AA Sequence	MAAIGSCSKE YRVLLGQLQK QTDLMQDTSR LLDPYIRIQG LDVPKLREHC RERPGAFPSE ETLRGLGRRG FLQTLNATLG CVLHRLADLE QRLPKAQDLE RSGLNIEDLE KLQMARPNIL GLRNNIYCMA QLLDNSDTAE PTKAGRGASQ PPTPTPASDA FQRKLEGCRF LHGYHRFMHS VGRVFSKWGE SPNRSRRHSP HQALRKGVRR

Purity greater than 95% determined by Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by Reducing and Non-reducing SDS-PAGE.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!