

Product Datasheet

Recombinant OSM, Mouse (orb1494782)

Catalog Number	orb1494782
Category	Proteins
Description	<p>Oncostatin M (OSM) is a multifunctional cytokine, and belongs to Interleukin-6 (IL-6) subfamily, which also includes IL-11, leukemia inhibitory factor (LIF), ciliary neurotropic factor, cardiotrophin-1, and novel neurotrophin-1. In vivo, OSM is secreted from activated T cells, monocytes, neutrophils, and endothelial cells. OSM is related to LIF, and shares a receptor with LIF in human. Human OSM can bind to gp130 and recruit OSM Receptor β or LIF Receptor β to form a ternary complex. OSM stimulates the growth of different types of cells, including megakaryocytes, fibroblasts, vascular endothelial cells, and T cells. OSM inhibits the proliferation of several cancer cell lines, such as solid tissue tumor cells, lung cancer cells, melanoma cells, and breast cancer cells. Recombinant Mouse Oncostatin M (rmOSM) produced in E.coli is a single non-glycosylated polypeptide chain containing 182 amino acids. A fully biologically active molecule, rmOSM has a molecular mass of 20.5 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.</p>
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Buffer/Preservatives	Lyophilized after extensive dialysis against PBS.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Purification	> 95% as analyzed by SDS-PAGE and HPLC.
Protein Sequence	MNRGCSNSS SLLSQLQNQ ANLTGNTESL LEPYIRLQNL NTPDLRAACT QHSVAFPS ED TLRQLSKPHF LSTVYTTLDR VLYQLDALRQ KFLKTPAFPK LDSARHNILG IRNNVFCMAR LLNHSLEIPE PTQTDSGASR STTTPDVFNT KIGSCGFLWG YHRFMGSGVGR VFREWDDGST RSR
MW	20.5 kDa, observed by reducing SDS-PAGE.
Application notes	Reconstituted in ddH ₂ O or PBS at 100 μ g/ml.

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Endotoxins	0.2 EU/ μ g, determined by LAL method.
Source	Escherichia coli.
Biological Activity	ED50 1×10^5 units/mg.
Storage	Lyophilized recombinant Mouse Oncostatin M (rmOSM) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rmOSM remains stable up to 2 weeks at 4°C or up to 3 months at -20°C .
Note	For research use only
Expiration Date	6 months from date of receipt.

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Biorbyt LLC

68 TW Alexander Drive
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Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)