

Product Datasheet

Recombinant OSM, Rat (orb1494781)

Catalog Number	orb1494781
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 Rat Oncostatin M (rrOSM) produced in E.coli is a single non-glycosylated polypeptide chain containing 215 amino acids. A fully biologically active molecule, rrOSM has a molecular mass of 24.5 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	MKRGCSSSS PKLLSQLKSQ ANITGNTASL LEPYILHQNL NTLTLRAACT EHPVAFPSD MLRQLSKPDF LSTVHATLGR VWHQLGAFRQ QFPKIQDFPE LERARQNIQG IRNNVYCMAR LLHPPLEIPE PTQADSGTSR PTTTAPGIFQ IKIDSCRFLW GYHRFMGSVG RVFEEWGDGS RRSRRHSPLW AWLKGDRIR PSRSSQSAML RSLVPR
MW	24.5 kDa, observed by reducing SDS-PAGE.
Application notes	Reconstituted in ddH ₂ O or PBS at 100 μ g/ml.

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Endotoxins	0.2 EU/ μ g, determined by LAL method.
Source	Escherichia coli.
Biological Activity	ED50 1×10^5 units/mg.
Storage	Lyophilized recombinant Rat Oncostatin M (rrOSM) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rrOSM 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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