

Overview

Synonyms	OSM
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. <i>In vivo</i>, 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 Receptor² or LIF Receptor² 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.</p> <p>Recombinant Rat Oncostatin M (rrOSM) produced in <i>E. coli</i> 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.</p>
Accession No	Q65Z15
Species	Rat
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 10 ng/mL, measured by a cell proliferation assay using Rat Embryo Brain cells, corresponding to a specific activity of > 1 × 10 ⁵ units/mg.
Sequence	<p>MKRGCSSTSSP KLLSQLKSQA NITGNTASLL EPYILHQNLN TLTLRAACTE HPVAFPSDEM LRQLSKPDFL STVHATLGRV WHQLGAFRQQ FPKIQDFPEL ERARQNIQGI RNNVYCMARL LHPPLEIPEP TQADSGTSRP TTTAPGIFQI KIDSCRFLWG YHRFMGSVGR VFEWGDGSR RSRRHSPPLWA WLKGDHRIRP SRSSQSAMLR SLVPR</p>

Properties

Measured Molecular Weight	24.5 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Rat Oncostatin M (rrOSM) remains stable up to 6 months at lower than -70°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

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