

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 human Oncostatin M(209 a.a.) (rhOSM) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 210 amino acids. A fully biologically active molecule, rhOSM has a molecular mass of 23.8 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.</p>
Accession No	P13725
Species	Human
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 10 ng/mL, measured by a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 1 × 10 ⁵ units/mg.
Sequence	<pre> MAAIGSCSKE YRVLLGQLQK QTDLMQDTSR LLDPYIRIQG LDVPKLREHC RERPGAFPSE ETLRGLGRRG FLQTLNATLG CVLHRLADLE QRLPKAQDLE RSGLNIEDLE KLQMARPNIL GLRNNIYCMA QLLDNSDTAE PTKAGRGASQ PPTPTPASDA FQRKLEGCRF LHGYHRFMHS VGRVFSKWGE SPNRSRRHSP HQALRKGVRR </pre>

Properties

Measured Molecular Weight	23.8 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 human Oncostatin M(209 a.a.) (rhOSM) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhOSM should be 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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