Product Datasheet

RecombinantOSM(227aa),Human (orb1494783)

Description	Oncostatin M (OSM) is a multifunctional cytokine, and belongs to Interleukin-6 (IL-6) subfamily, including IL-11, leukemia inhibitory factor (LIF), ciliary neurotropic factor, cardiotrophin-1, and novel neurotropin-1. In vivo, OSM is secreted from activated T cells, monocytes, neutrophils, and endothelial cells. OSM is related to LIF, and share 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. On the other hand, 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 human Oncostatin M (rhOSM) produced in E.coli is a single non-glycosylated polypeptide chain containing 228 amino acids. A fully biologically active molecule, rhOSM has a molecular mass of 25.9 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.
Endotoxins	< 0.2 EU/μg, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant human Oncostatin M (rhOSM) remains stable up to 6 months at -80°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
Application notes	Reconstituted in ddH2O at 100 μg/mL.
Protein Sequence	MAAIGSCSK EYRVLLGQLQ KQTDLMQDTS RLLDPYIRIQ GLDVPKLREH CRERPGAFPS EETLRGLGRR GFLQTLNATL GCVLHRLADL EQRLPKAQDL ERSGLNIEDL EKLQMARPNI LGLRNNIYCM AQLLDNSDTA EPTKAGRGAS QPPTPTPASD AFQRKLEGCR FLHGYHRFMH SVGRVFSKWG ESPNRSRRHS PHQALRKGVR RTRPSRKGKR LMTRGQLPR

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Purity	> 95% by SDS-PAGE analysis.
Source	Escherichia coli.
MW	25.9 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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