



Oncostatin M (209 amino acids), human recombinant (rHuOSM)

Catalog No: 97241
Lot No: XXXXX
Source: *E. coli*
Synonyms: OSM, MGC20461, Oncostatin M

Background

Oncostatin M is a member of a cytokine family that includes leukemia-inhibitory factor, granulocyte colony-stimulating factor, and interleukin 6. This gene encodes a growth regulator which inhibits the proliferation of a number of tumor cell lines. It regulates cytokine production, including IL-6, G-CSF and GM-CSF from endothelial cells.

Description

OSM (209aa) human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 209 amino acids and having a molecular mass of 23.9 kDa. Oncostatin-M (209) is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Oncostatin-M was lyophilized from a concentrated (1 mg/ml) solution containing 1x PBS pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized Oncostatin-M (209 a.a.) in sterile 18 M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Oncostatin-M (209 aa), although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Oncostatin-M (209 a.a.) should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

AAIGSCSKEY RVLGQLQKQ TDLMQDTSRL LDPYIRIQGL DVPKLRHCR ERPGAFPSEE TLRGLGRRGF LQTLNATLGC
VLHRLADLEQ RLPKAQDLER SGLNIEDLEK LQMARPNIIG LRNNIYCMAQ LLDNSDTAEP TKAGRGASQP PTPTPASDAF
QRKLEGCRFL HGYHRFMHSV GRVFKWGESP NRSRRHSPHQ ALRKGVRR

Activity

The ED₅₀ as determined by the dose-dependant stimulation of Human TF-1 cells is <2 ng/ml, corresponding to a specific activity of 500,000 IU/mg.

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