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OSM Human

Oncostatin-M Human Recombinant
GRF0293

Product Overview

Name	OSM Human
Description	
Oncostatin-M Human Recombinant	
Accession (Primary)	P13725
Synonyms	
OSM, MGC20461.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a concentrated (1mg/ml) solution containing PBS pH-7.4.	
Stability	
Lyophilized Oncostatin M although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Oncostatin 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 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
AAIGSCSKEY RVLLGQLQKQ TDLMQDTSRL LDPYIRIQGL DVPKLREHCR ERPGAFPSEE TLRGLGRRGF LQTLNATLGC VLHRLADLEQ RLPKAQDLER SGLNIEDLEK LQMARPNILG LRNNIYCMAQ LLDNSDTAEP TKAGRGASQP PTPTPASDAF QRKLEGCRFL HGYHRFMHSV GRVFSKWGES PNRSRRHSPH QALRKGVRRT RPSRKGKRLM TRGQLPR.	
Biological Activity	

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

Solubility

It is recommended to reconstitute the lyophilized Oncostatin M in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Protein content

Protein quantitation was carried out by two independent methods 1. UV spectroscopy at 280 nm using the absorbency value of 0.45 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using standard solution of Oncostatin as Reference.

Precautions

OSM Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P13725)