Oncostatin M Rat E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Rat
Other names: OSM

Cat. No.:

RBG30068002	(2 µg)
RBG30068010	(10 µg)
RBG30068100	(100 µg)

Description

Oncostatin M (OSM) is a growth and differentiation factor that participates in the regulation of neurogenesis, osteogenesis and hematopoiesis. Produced by activated T cells, monocytes and Kaposi's sarcoma cells, OSM can exert both stimulatory and inhibitory effects on cell proliferation. It stimulates the proliferation of fibroblasts, smooth muscle cells and Kaposi's sarcoma cells, but inhibits the growth of some normal and tumor cell lines. It also promotes cytokine release (e.g. IL-6, GM-CSF and G-CSF) from endothelial cells, and enhances the expression of low-density lipoprotein receptors in hepatoma cells. OSM shares several structural and functional characteristics with LIF, IL-6, and CNTF. Recombinant Rat Oncostatin M is a 24.4 kDa protein, containing 215 amino acid residues.

Research topic

Bone and cartilage metabolism, Cardiovascular disease, Coronary artery disease, Immune Response, Infection and Inflammation

Amino Acid Sequence

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MKRGCSSSSP KLLSQLKSQA NITGNTASLL EPYILHQNLN TLTLRAACTE HPVAFPSEDM LRQLSKPDFL STVHATLGRV
WHQLGAFRQQ FPKIQDFPEL ERARQNIQGI RNNVYCMARL LHPPLEIPEP TQADSGTSRP TTTAPGIFQI KIDSCRFLWG
YHRFMGSVGR VFEEWGDGSR RSRRHSPLWA WLKGDHRIRP SRSSQSAMLR SLVPR
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Source

E. coli

Purity

98%

Biological Activity

Assay #1: Determined by its ability to stimulate the proliferation of rat C6 cells. The expected ED_{50} is 3.0-5.0 µg/ml. Assay #2: Determined by its ability to inhibit Alkaline phosphatase activity of differentiated MC3T3 E1 cells.

Storage, Stability/Shelf Life

-20°C

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