Oncostatin M, Human, Recombinant

Cat. No. : PCK371

General Information

Synonyms	MOncostatin M; oncostatin-M; OSM
Species	Human
Expression host	HEK-293
Sequence	AAIGSCSKEYRVLLGQLQKQTDLMQDTSRLLDPYIRIQGLDVPKLREHCRER PGAFPSEETLRGLGRRGFLQTLNATLGCVLHRLADLEQRLPKAQDLERSGLN IEDLEKLQMARPNILGLRNNIYCMAQLLDNSDTAEPTKAGRGASQPPTPTPA SDAFQRKLEGCRFLHGYHRFMHSVGRVFSKWGESPNRSRR
Accession	P13725
Mol mass	25.7 kDa
Expiration date	12 months
Bio activity	Fully biologically active when compared to standard. Determined by the dose dependant proliferation of TF-1 cell line. ED50 is ≤ 0.2 ng/mL, corresponding to a specific activity of 5.00×10^6 units/mg.

Product feature

Purity	> 95% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin	< 0.1 EU per 1 μg of the protein by the LAL method.
Storage	Store at -5~-20°C or -80°C for 6 months. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ambient temperature or ice pack.
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

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. Human OSM is active on murine cells. Recombinant Human Oncostatin M is a 25.7 kDa protein, containing 227 amino acid residues (full length precursor).