10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Animal-Free Recombinant Human Oncostatin-M (209 a.a.)

Catalog # PBG10572

Specification

Animal-Free Recombinant Human Oncostatin-M (209 a.a.) - Product Information

Animal-Free Recombinant Human Oncostatin-M (209 a.a.) - Additional Information

Description
Oncostatin M (OSM) is a growth and differentiation factor that participates in the regulation of neurogenesis, osteogenesis and hematopoiesis. Produced by activate T cells, monocytes and Kaposi's sarcoma cells, OSH 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 receptor in hepatoma cells. OSM share several structural and functional characteristics with LIF, IL-6, and CNTF. Human OSM is active on murine cells. The human OSM gene encodes for a 252 amino acid polypeptide, containing 25 amino acid signal sequence for secretion and a 227 precursor protein. Proteolytic processing of this precursor removes an 18 amino acid C-terminal peptide and generates the mature OSM form. Recombinant human Oncostatin M is a 23.6 kDa protein, containing 209 amino acid residues.

BiologicalActivity
The ED₅₀as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is ≤ 2.0 ng/ml, corresponding to a specific activity of ≥ 5 x 10⁵ units/mg.

Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin
Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Animal-Free Recombinant Human Oncostatin-M (209 a.a.) is for research use only and not for use in diagnostic or therapeutic procedures.

Animal-Free Recombinant Human Oncostatin-M (209 a.a.) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot

- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Animal-Free Recombinant Human Oncostatin-M (209 a.a.) - Images