

Datasheet for ABIN2018297

Oncostatin M Protein (OSM) (AA 26-234)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	Oncostatin M (OSM)
Protein Characteristics:	AA 26-234
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 10 ng/mL, measured by a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 1x 10 ⁵ units/mg. AA 26-234, expressed with an N-terminal Met.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	Oncostatin M (OSM)
Abstract:	OSM Products
Background:	Oncostatin M (OSM) is a multifunctional cytokine, and belongs to Interleukin-6 (IL-6) subfamily, which also includes IL-11, leukemia inhibitory factor (LIF), ciliary neurotropic factor, cardiotrophin-1, and novel neurotrophin-1. In vivo, OSM is secreted from activated T cells,

Target Details

monocytes, neutrophils, and endothelial cells. OSM is related to LIF, and shares a receptor with LIF in human. Human OSM can bind to gp130 and recruit OSM Receptor beta or LIF Receptor beta to form a ternary complex. OSM stimulates the growth of different types of cells, including megakaryocytes, fibroblasts, vascular endothelial cells, and T cells. OSM inhibits the proliferation of several cancer cell lines, such as solid tissue tumor cells, lung cancer cells, melanoma cells, and breast cancer cells. Recombinant human Oncostatin M(209 a.a.) (rhOSM) produced in *E. coli* is a single non-glycosylated polypeptide chain containing 210 amino acids. A fully biologically active molecule, rhOSM has a molecular mass of 23.8 kDa analyzed by reducing SDS-PAGE.

Synonyms: OSM

Molecular Weight: 23.8 kDa, observed by reducing SDS-PAGE.

UniProt: [P13725](#)

Pathways: [JAK-STAT Signaling](#), [Negative Regulation of Hormone Secretion](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human Oncostatin M(209 a.a.) (rhOSM) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhOSM should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months