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Datasheet for ABIN2018303

Oncostatin M Protein (OSM) (AA 26-239)

Overview

Quantity:	50 µg
Target:	Oncostatin M (OSM)
Protein Characteristics:	AA 26-239
Origin:	Rat
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 Rat Embryo Brain cells, corresponding to a specific activity of > 1x 10 ⁵ units/mg. AA 26-239, 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)
Alternative Name:	Oncostatin M(OSM) (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 Mouse Oncostatin M (rmOSM) produced in *E. coli* is a single non-glycosylated polypeptide chain containing 182 amino acids. A fully biologically active molecule, rmOSM has a molecular mass of 20.5 kDa analyzed by reducing SDS-PAGE.

Synonyms: OSM

Molecular Weight: 24.5 kDa, observed by reducing SDS-PAGE.

UniProt: [Q65Z15](#)

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 Rat Oncostatin M (rrOSM) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rrOSM remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months