Datasheet for ABIN2018294

Oncostatin M Protein (OSM) (AA 26-252)

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Overview

Quantity:	50 µg
Target:	Oncostatin M (OSM)
Protein Characteristics:	AA 26-252
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 26-252, expressed with an N-terminal Met.
Purity:	> 95 % by SDS-PAGE analysis.
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, including IL-11, leukemia inhibitory factor (LIF), ciliary neurotropic factor, cardiotrophin-1, and novel neurotropin-1. In vivo, OSM is secreted from activated T cells, monocytes, neutrophils,

Target Details

	and endothelial cells. OSM is related to LIF, and share 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. On the other hand, 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 (rhOSM) produced in E. coli is a single non-glycosylated polypeptide chain containing 228 amino acids. A fully biologically active molecule, rhOSM has a molecular mass of 25.9 kDa analyzed by reducing SDS-PAGE. Synonyms: OSM
Molecular Weight:	25.9 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 at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant human Oncostatin M (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