



[Go to Product page](#)

Datasheet for ABIN7275379

Oncostatin M Protein (OSM) (AA 26-221) (His-Avi Tag)

3 Images

Overview

Quantity:	100 µg
Target:	Oncostatin M (OSM)
Protein Characteristics:	AA 26-221
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Oncostatin M protein is labelled with His-Avi Tag.

Product Details

Purpose:	Human Oncostatin M/OSM Protein
Sequence:	Ala26-Arg221
Characteristics:	Recombinant Human Oncostatin M/OSM Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Ala26-Arg221.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.662 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

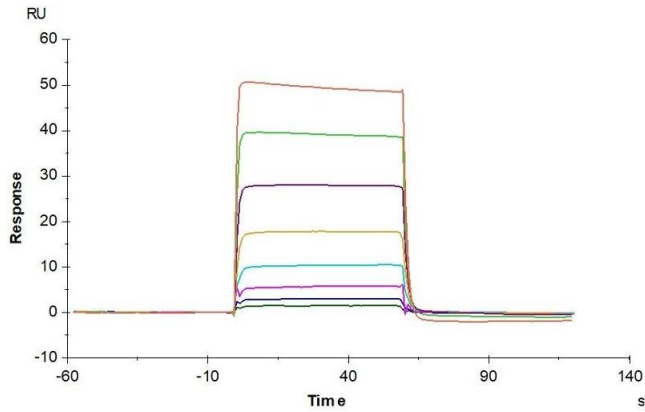
Target:	Oncostatin M (OSM)
Alternative Name:	OSM (OSM Products)
Background:	OSM is a pleiotropic cytokine that initiates its biological activities by binding to specific cell surface receptors. Inhibits the proliferation of a number of tumor cell lines. Stimulates proliferation of AIDS-KS cells. It regulates cytokine production, including IL-6, G-CSF and GM-CSF from endothelial cells. Uses both type I OSM receptor (heterodimers composed of LIFR and IL6ST) and type II OSM receptor (heterodimers composed of OSMR and IL6ST). Involved in the maturation of fetal hepatocytes, thereby promoting liver development and regeneration.
Molecular Weight:	25.1 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Tris-Bis PAGE result.
UniProt:	P13725
Pathways:	JAK-STAT Signaling , Negative Regulation of Hormone Secretion

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

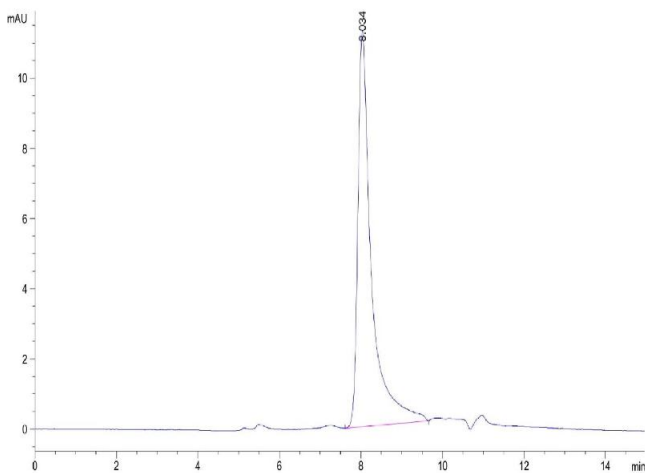
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



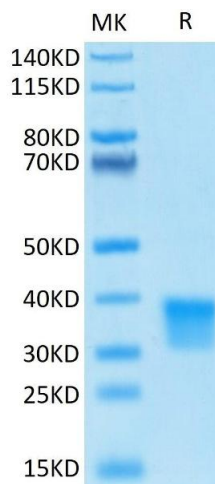
Surface Plasmon Resonance

Image 1. Human LIF R, His Tag immobilized on CM5 Chip can bind Human OSM, His Tag with an affinity constant of 0.662 μ M as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human OSM is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Human OSM on Tris-Bis PAGE under reduced conditions. The purity is greater than 95 % .