

Datasheet for ABIN2181568

**Oncostatin M Protein (OSM) (AA 26-252)**[Go to Product page](#)**2** Images

## Overview

Quantity: 50 µg

Target: Oncostatin M (OSM)

Protein Characteristics: AA 26-252

Origin: Human

Source: HEK-293 Cells

Protein Type: Recombinant

## Product Details

Brand: ActiveMax®

Sequence: AA 26-252

Characteristics: This protein carries no "tag". The protein has a calculated MW of 25.8 kDa. The protein migrates as 36 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Purity: &gt;95 % as determined by SDS-PAGE.

Sterility: 0.22 µm filtered

Endotoxin Level: Less than 1.0 EU per µg by the LAL method.

## Target Details

Target: Oncostatin M (OSM)

Alternative Name: Oncostatin M ([OSM Products](#))

Background: Oncostatin M is also known as OSM, is a glycoprotein belonging to the interleukin-6 family of

## Target Details

---

cytokines that has functions mainly in cell growth. Of these cytokines it most closely resembles leukemia inhibitory factor (LIF) in both structure and function. However, it is as yet poorly defined and is proving important in liver development, haematopoiesis, inflammation and possibly CNS development. It is also associated with bone formation and destruction. OSM signals through cell surface receptors that contain the protein gp130. The type I receptor is composed of gp130 and LIFR, the type II receptor is composed of gp130 and OSMR. Oncostatin M (OSM) was previously identified by its ability to inhibit the growth of cells from melanoma and other solid tumors. It also has been reported that OSM, like LIF, IL-6 and G-CSF, has the ability to inhibit the proliferation of murine M1 myeloid leukemic cells and can induce their differentiation into macrophage-like cells. The human form of OSM is insensitive between pH 2 and 11 and resistant to heating for one hour at 56 degree but is not stable at 90 degrees. The three dimensional structure of human OSM has been solved to atomic resolution, confirming the predicted long chain four helix bundle topology. Comparing this structure with the known structures of other known LC cytokines shows it to be most closely related to LIF.

---

Molecular Weight: 25.8 kDa

---

NCBI Accession: [NP\\_065391](#)

---

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

## Application Details

---

Restrictions: For Research Use only

## Handling

---

Format: Lyophilized

---

Buffer: PBS, pH 7.4

---

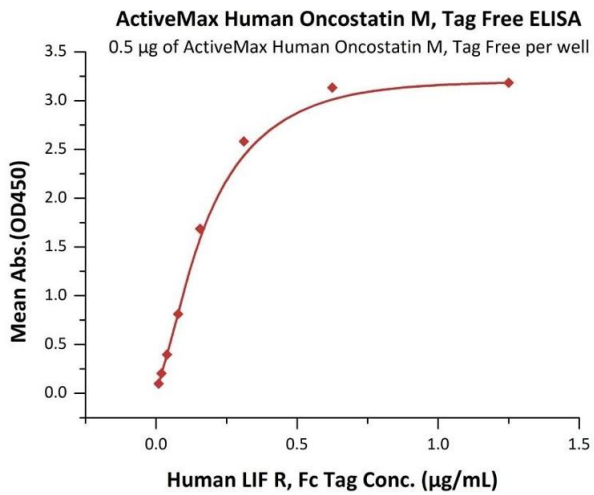
Handling Advice: Please avoid repeated freeze-thaw cycles.

---

Storage: -20 °C

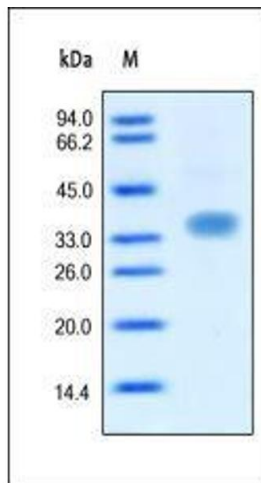
---

Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).



**ELISA**

**Image 1.** Immobilized Human Oncostatin M, Tag Free (ABIN2181568,ABIN6810030) at 5 µg/mL (100 µL/well) can bind Human LIF R, Fc Tag (ABIN2444162,ABIN2181467) with a linear range of 0.01-0.156 µg/mL (QC tested).



**SDS-PAGE**

**Image 2.** Human Oncostatin M on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.