

Active Recombinant Human OSM protein, His-GST-tagged

Cat. No. OSM-759H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human OSM protein(P13725)(26~220 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	26-220 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Oncostatin M (OSM) is an approximately 30 KDa secreted cytokine belonging to the Interleukin-6 family. Like other members of the IL-6 family such as IL-11, CNTF, and Cardiotrophin-1, OSM plays crucial roles in inflammation, neuroprotection, hematopoiesis, metabolism and development. To test the effect of OSM on cell proliferation, TF-1 cells were seeded into triplicate wells of 96-well plates with various concentrations of recombinant human OSM. After incubated for 72 hours, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μ of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of TF-1 cells after incubation with OSM for 72 hours observed by inverted microscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant

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human OSM for 72 hours. It was obvious that recombinant human OSM significantly increased cell viability of TF-1 cells, the EC50 was 0.014 ug/ml.

Molecular Mass	51.9kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	OSM oncostatin M [Homo sapiens]
Official Symbol	OSM
Synonyms	OSM; oncostatin M; oncostatin-M; MGC20461;
Gene ID	5008
mRNA Refseq	NM_020530
Protein Refseq	NP_065391
MIM	165095

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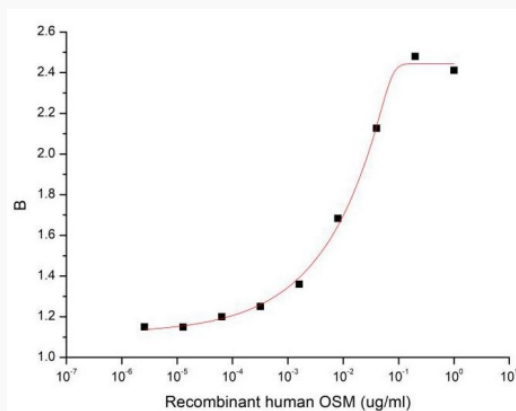
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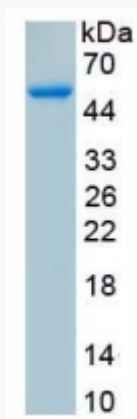
UniProt ID

P13725

Activity



SDS-PAGE



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