

HumanKine[®] OSM (Recombinant Human)



Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
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Product Description

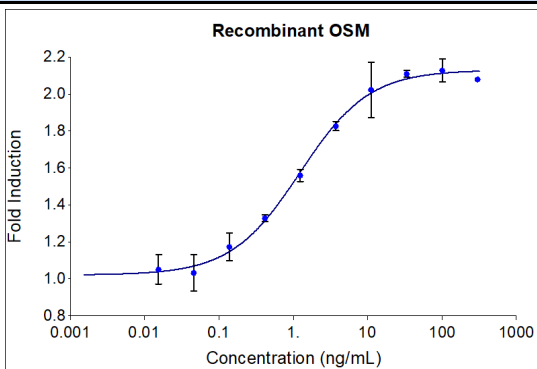
Animal-free Recombinant Human Oncostatin M is expressed in human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 30 kDa. This higher molecular mass is due to glycosylation and is not seen in the E. coli expressed form of this cytokine (22kDa). Glycosylation contributes to stability in cell growth media and other applications. This product is produced in a human cell expression system with serum-free, chemically defined media.

Alternative Names	oncostatin M, OSM
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived OSM protein
Species Reactivity	human

Specifications

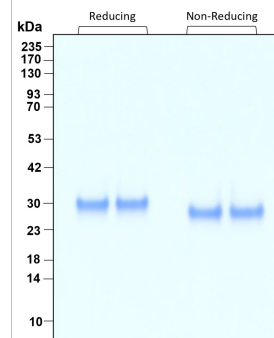
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line)	0.1-1.5 ng/mL EC50
Molecular Mass	SDS-PAGE	32 kDa reduced, 28 kDa non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

Activity Data



Recombinant human OSM (HZ-1030) stimulates dose-dependent proliferation of the TF-1 human erythroleukemic indicator cell line. Cell number was quantitatively assessed by PrestoBlue[®] Cell Viability Reagent. TF-1 cells were treated with increasing concentrations of GMP recombinant OSM for 96 hours. The EC50 was determined using a 4-parameter non-linear

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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