

## OSM Protein, Human (HEK293)

Cat. No.:	HY-P74662
Synonyms:	Oncostatin M; OSM
Species:	Human
Source:	HEK293
Accession:	P13725 (A26-R221)
Gene ID:	5008
Molecular Weight:	Approximately 31.6 kDa

### PROPERTIES

AA Sequence	<p>           A A I G S C S K E Y    R V L L G Q L Q K Q    T D L M Q D T S R L    L D P Y I R I Q G L            D V P K L R E H C R    E R P G A F P S E E    T L R G L G R R G F    L Q T L N A T L G C            V L H R L A D L E Q    R L P K A Q D L E R    S G L N I E D L E K    L Q M A R P N I L G            L R N N I Y C M A Q    L L D N S D T A E P    T K A G R G A S Q P    P T P T P A S D A F            Q R K L E G C R F L    H G Y H R F M H S V    G R V F S K W G E S    P N R S R R         </p>
Biological Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells and the ED <sub>50</sub> is typically 0.2-1.2 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>GMP OSM Protein stands as a versatile growth regulator with dual inhibitory effects on the proliferation of various tumor cell lines and stimulatory effects on AIDS-KS cell proliferation. Notably, OSM orchestrates the regulation of cytokine production, including IL-6, G-CSF, and GM-CSF from endothelial cells. This multifaceted growth regulator engages both the type I OSM receptor, forming heterodimers composed of LIFR and IL6ST, and the type II OSM receptor, forming heterodimers composed of OSMR and IL6ST. Beyond its antiproliferative and proliferative roles, OSM plays a crucial part in the maturation of fetal</p>
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hepatocytes, contributing significantly to liver development and regeneration.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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