

## OSM Protein, Human (227a.a, His)

Cat. No.:	HY-P7052B
Synonyms:	rHuOSM; OSM
Species:	Human
Source:	E. coli
Accession:	P13725 (A26-R252)
Gene ID:	5008
Molecular Weight:	Approximately 27 kDa

### PROPERTIES

<b>AA Sequence</b>	<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 H S P H            Q A L R K G V R R T    R P S R K G K R L M    T R G Q L P R         </p>
<b>Biological Activity</b>	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED <sub>50</sub> for this effect is 0.2968 ng/mL, corresponding to a specific activity is 3.369×10 <sup>6</sup> U/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of PBS, 300 mM NaCl, pH 7.4, 5% trehalose, 5% mannitol and 0.01% Tween 80.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	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
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of OSMR and IL6ST. Beyond its antiproliferative and proliferative roles, OSM plays a crucial part in the maturation of fetal 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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