

## OSM Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78502
Synonyms:	Oncostatin M; OSM; MGC20461
Species:	Human
Source:	HEK293
Accession:	P13725 (A26-R221)
Gene ID:	5008
Molecular Weight:	30-40 kDa

### PROPERTIES

Biological Activity	Human LIF R, His Tag immobilized on CM5 Chip can bind Human OSM, His Tag with an affinity constant of 0.87 $\mu$ M as determined in SPR assay (Biacore T200).
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/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	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 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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