Human Oncostatin-M,OSM ELISA KIT

Product Code	CSB-E04696h
Abbreviation	OSM
Protein Biological Process 1	Growth Factor
Target Name	oncostatin M
Uniprot No.	P13725
Alias	MGC20461
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Growth regulation
Sample Types	serum, plasma, cell culture supernates
Detection Range	6.25 pg/mL-400 pg/mL
Sensitivity	1.56 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	OSM
Tag Info	quantitative
Protein Description	Sandwich

Description

The Human Oncostatin-M (OSM) ELISA KIT is an accurate and reliable tool for the detection of Oncostatin-M protein levels in human serum, plasma, and cell culture supernates. Oncostatin-M is a multifunctional cytokine that plays a critical role in cell growth,immune response regulation and inflammation.

The Human OSM ELISA KIT has a detection range of 6.25 pg/mL-400 pg/mL and a high sensitivity of 1.56 pg/mL, ensuring precise and accurate measurements even at low concentrations. The kit uses a sandwich assay principle, which involves the use of two monoclonal antibodies specific to the human OSM protein.

The assay time for the kit is 1-5 hours, and the sample volume required is 50-100ul. Detection is done at a wavelength of 450 nm, making it easy to read

and interpret the results. The kit is suitable for use in immunology and cell research, where OSM protein levels are of interest.

Target Details

Oncostatin M is a member of a cytokine family that includes leukemia-inhibitory factor, granulocyte colony-stimulating factor, and interleukin 6. This gene encodes a growth regulator which inhibits the proliferation of a number of tumor cell lines. It regulates cytokine production, including IL-6, G-CSF and GM-CSF from endothelial cells.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human OSM in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	88
	Range %	83-97
1:2	Average %	97
	Range %	91-103
1:4	Average %	84
	Range %	80-88
1:8	Average %	89
	Range %	81-95

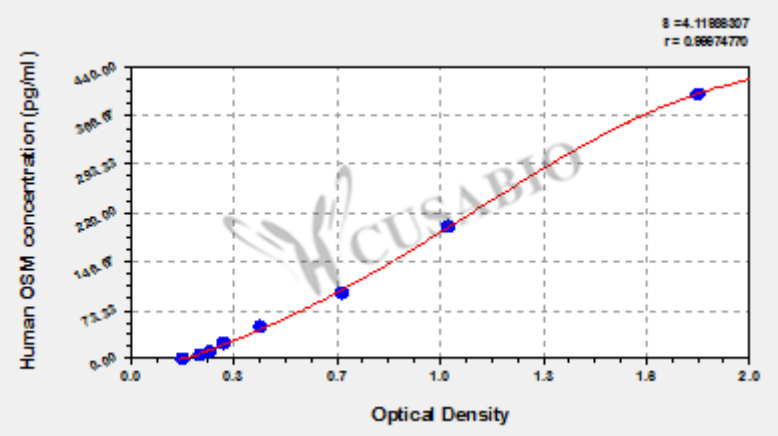
Recovery

The recovery of human OSM spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	101	94-102
EDTA plasma (n=4)	107	100-115

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
400	1.779	1.844	1.812	1.642
200	1.011	1.023	1.017	0.847
100	0.685	0.666	0.676	0.506
50	0.421	0.415	0.418	0.248
25	0.296	0.302	0.299	0.129
12.5	0.251	0.265	0.258	0.088
6.25	0.222	0.232	0.227	0.057
0	0.165	0.174	0.170	?

Msds

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