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Product datasheet for PH304277

Oncostatin M (OSM) (NM_020530) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	OSM MS Standard C13 and N15-labeled recombinant protein (NP_065391)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204277
Predicted MW:	28.5 kDa
Protein Sequence:	>RC204277 protein sequence Red=Cloning site Green=Tags(s) MGVLLTQRTLLSLVLALLFPSMASMAAIGSCSKEYRVLLGQLQKQTDLMQDTSRLLDPYIRIQGLDVPKL REHCRERPGAFPSEETLRGLGRRGFLQTLNATLGCVLHRLADLEQRLPKAQDLERSGLNIEDLEKLQMAR PNILGLRNNIYCMAQLLDNSDTAEPTKAGRGASQPPTPTPASDAFQRKLEGCRFLHGYHRFMHSVGRVFS KWGESPNRSRRHSPHQALRKGVRRTRPSRKGKRLMTRGQLPR TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_065391
RefSeq Size:	1869
RefSeq ORF:	756
Locus ID:	5008
UniProt ID:	P13725
Cytogenetics:	22q12.2

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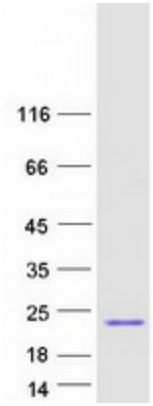
Summary: This gene encodes a member of the leukemia inhibitory factor/oncostatin-M (LIF/OSM) family of proteins. The encoded preproprotein is proteolytically processed to generate the mature protein. This protein is a secreted cytokine and growth regulator that inhibits the proliferation of a number of tumor cell lines. This protein also regulates the production of other cytokines, including interleukin 6, granulocyte-colony stimulating factor and granulocyte-macrophage colony stimulating factor in endothelial cells. This gene and the related gene, leukemia inhibitory factor, also present on chromosome 22, may have resulted from the duplication of a common ancestral gene. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway

Protein Pathways: Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

Product images:



Coomassie blue staining of purified OSM protein (Cat# [TP304277]). The protein was produced from HEK293T cells transfected with OSM cDNA clone (Cat# [RC204277]) using MegaTran 2.0 (Cat# [TT210002]).