Product Datasheet

Recombinant Human Oncostatin M/OSM Protein
NBP1-46103-2ug

Unit Size: 2 ug
Store at -80C. Avoid freeze-thaw cycles.

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### NBP1-46103-2ug
Recombinant Human Oncostatin M/OSM Protein

#### Product Information
<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>2 ug</th>
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<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>Lyoph</td>
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<tr>
<td><strong>Storage</strong></td>
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<tr>
<td><strong>Reconstitution Instructions</strong></td>
<td>Reconstitute with 0.5 ml sterilized PBS. After reconstitution the buffer solution will contain 1% human serum albumin and 10% trehalose already present in the vial.</td>
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</tbody>
</table>

#### Product Description

**Description**
A biologically active protein to OSM.

**Gene ID**
5008

**Gene Symbol**
OSM

**Species**
Human

**Reactivity Notes**
This is a Human protein

**Specificity/Sensitivity**
Oncostatin M HCX migrates as a broad band between 25 and 40 kDa in SDS-PAGE due to post-translation modifications, in particular glycosylation. This compares with unmodified Oncostatin M that has a predicted molecular mass of 23.7 kDa. Oncostatin M HCX contains O-linked oligosaccharides.

**Preparation Method**
A DNA sequence encoding the human Oncostatin M protein sequence (containing the signal peptide sequence, the C-terminal propeptide sequence, and the mature Oncostatin M sequence) was expressed in modified human 293 cells.

**Details of Functionality**
The ED50 of Oncostatin M HCX is typically 0.25-0.50 ng/ml as measured in a cell proliferation assay using the human growth factor-dependent TF-1 cell line.

#### Product Application Details

**Applications**
Western Blot, Functional, Block/Neutralize

**Recommended Dilutions**
Western Blot, Functional, Block/Neutralize

**Application Notes**
This protein is functionally active and can be used for Blocking and Neutralizing. It can also be used for Western Blot. Oncostatin M HCX separates into a number of isoforms with a pI between 5.5 and 10 in 2D PAGE due to post-translational modifications, in particular glycosylation. This compares with the unmodified Oncostatin M that has a predicted pI of 9.97.
Western Blot: Oncostatin M Protein [NBP1-46103] - A sample of Oncostatin M without carrier protein was reduced and alkylated and focused on a 3-10 IPG strip then run on a 4-20% Tris-HCl 2D gel. Approximately 40 ug of protein was load; Gel was stained using Deep Purple (TM). Spot train indicates presence of multiple isoforms of Oncostatin M. Spots within the spot train were cut from the gel and identified as Oncostatin M by protein mass fingerprinting

Western Blot: Oncostatin M Protein [NBP1-46103] - Lane 1 - MW markers; Lane 2 - Oncostatin M; Lane 3 - Oncostatin M treated with PNGase F to remove potential N-linked glycans; Lane 4 - Oncostatin M treated with a glycosidase cocktail to remove potential N- and O-linked glycans. Approximately 5 ug of protein was loaded per lane; Gel was stained using Deep Purple (TM). Drop in MW after treatment with the glycosidase cocktail indicates presence of O-linked glycans. Additional bands in lane 3 and lane 4 are glycosidase enzymes.

Densitometry: Oncostatin M Protein [NBP1-46103] - Post-translational modifications result in protein heterogeneity. The densitometry scan demonstrates the purified human cell expressed protein exists in multiple isoforms, which differ according to their level of post-translational modification. Expression of these isoforms is highly significant for cell biology, as they more closely resemble the native human proteins. The triangle indicates theoretical pI and MW of the protein. The original 2D gel from which the densitometry scan was derived is shown above.
Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 2 years from date of receipt.

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