

## Datasheet for ABIN1589766 **ESM1 Protein (His tag)**



so to i roduct page

| Overview                      |   |
|-------------------------------|---|
| Quantity:                     | 50 µg   |
| Target:                       | ESM1  |
| Origin:                       | Human   |
| Source:                       | Insect Cells  |
| Protein Type:                 | Recombinant   |
| Purification tag / Conjugate: | This ESM1 protein is labelled with His tag.   |
| Product Details               |   |
| Sequence:                     | WSNNYAVDCP QHCDSSECKS SPRCKRTVLD DCGCCRVCAA GRGETCYRTV SGMDGMKCGP<br>GLRCQPSNGE DPFGEEFGIC KDCPYGTFGM DCRETCNCQS GICDRGTGKC LKFPFFQYSV<br>TKSSNRFVSL TEHDMASGDG NIVREEVVKE NAAGSPVMRK WLNPRTRHHH HHH  |
| Characteristics:              | Length (AA): 173<br>Chromosomal location: 5q11.2  |
| Purity:                       | > 95 % by SDS-PAGE. Visualized by silver staining   |
| Target Details                |   |
| Target:                       | ESM1  |
| Alternative Name:             | Endocan/ESM-1 (ESM1 Products)   |
| Background:                   | Endocan, also known as endothelial cell-specific molecule1 (ESM1), is a secreted cysteine-rich dermatan sulfate (DS) proteoglycan primarily expressed by endothelial cells within the vascular capillary network in kidney and in the alveolar walls of the lung. Endocan expression has also |

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|                   | been detected in different epithelia and in adipocytes. The expression of endocan is up-            |
|-------------------|---|
|                   | regulated by TNFa, IL1 $\beta$ or lipopolysaccharide and down-regulated by IFN $\gamma$ . The human |
|                   | Endocan gene encodes a 184 amino acid (aa) residues precursor protein with a 19 aa                  |
|                   | hydrophobic signal peptide and a 165 aa mature region with 18 Cysteine residues. The DS             |
|                   | chain is covalently attached to serine 137. Endocan has been shown to bind CD11a/CD18               |
|                   | integrin (also known as lymphocyte function-associated antigen1, LFA1) on human                     |
|                   | lymphocytes, monocytes and Jurkat cells, inhibiting its binding to ICAM1 and reducing               |
|                   | LFA1mediated leukocyte activation. Endocan binds via its DS chain to hepatocyte growth factor       |
|                   | (HGF) to enhance HGF mitogenic activity. Genetically engineered cells overexpressing Endocan        |
|                   | has been shown to induce tumor formation, suggesting that Endocan may be involved in the            |
|                   | pathophysiology of tumor growth in vivo. Circulating Endocan can be detected in the serum           |
|                   | from healthy subjects. In patients with lung cancer or acute and severe sepsis, elevated            |
|                   | Endocan concentrations have been reported.  |
|                   | Synonyms: ENDOCAN, ESM1, endothelial cell-specific molecule 1                                       |
| Molecular Weight: | 19.2 kDa  |
| NCBI Accession:   | NP_008967, NM_007036  |

| UniProt:  | Q9NQ30                |
|-----------|-----------------------|
| Pathways: | Growth Factor Binding |

## Application Details

| Application Notes: | Not tested so far.         |
|--------------------|----------------------------|
| Comment:           | Cytokines & Growth Factors |
| Restrictions:      | For Research Use only      |

## Handling

| Format:         | Lyophilized   |
|-----------------|---|
| Reconstitution: | Human ESM-1/Endocan should be reconstituted in 50 mM acetic acid or water to a concentration of 0.1 mg/mL. This solution can be diluted in water or other buffer solutions or stored at -20 °C. |
| Buffer:         | 300 mM NaCl, 50 mM NaP, pH 8.0  |
| Storage:        | 0 °C  |

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The lyophilized human ESM-1/Endocan, though stable at room temperature, is best stored desiccated below 0 °C.