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# Recombinant human Endocan/ESM1 protein

Catalog Number: ATGP1864

#### **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

20-184aa

#### UniProt No.

Q9NQ30

#### **NCBI Accession No.**

NP 008967.1

#### **Alternative Names**

Endocan, Endothelial cell-specific molecule 1, Endothelial cell-specific molecule 1 isoform a, ESM1

### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

20.5 kDa (188aa)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M urea, 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE, Denatured

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

Endothelial cell-specific molecule 1, also known as ESM1, is a proteoglycan secreted by endothelial cells and its mRNA expression is regulated by inflammatory cytokines. ESM1 expression has also been detected in different epithelia and in adipocytes. The expression of endocan is upregulated by TNF alpha, IL1 beta, or lipopolysaccharide and downregulated by IFN gamma. Genetically engineered cells overexpressing endocan has been shown to induce tumor formation, suggesting that ESM1 may be involved in the pathophysiology of tumor growth in vivo. Recombinant human ESM1 protein, fused to His-tag at N-terminus, was expressed in E. coli



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## **Amino acid Sequence**

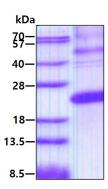
<MGSSHHHHHH SSGLVPRGSH MGS>WSNNYAV DCPQHCDSSE CKSSPRCKRT VLDDCGCCRV CAAGRGETCY RTVSGMDGMK CGPGLRCQPS NGEDPFGEEF GICKDCPYGT FGMDCRETCN CQSGICDRGT GKCLKFPFFQ YSVTKSSNRF VSLTEHDMAS GDGNIVREEV VKENAAGSPV MRKWLNPR

#### **General References**

Scherpereel A., et al. (2003) Cancer Res. 63:6084. Bechard D., et al. (2000) J Vasc Res. 37:417.

## **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

