

Datasheet for ABIN7596361

## ESM1 Protein (AA 20-184) (His tag)



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### Overview

Quantity:	50 µg
Target:	ESM1
Protein Characteristics:	AA 20-184
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ESM1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

### Product Details

Sequence:	ADLWSNNYAV DCPQHCDSS CKSSPRCKRT VLDDCGCCRV CAAGRGETCY RTVSGMDGMK CGPGLRCQPS NGEDPFGEEF GICKDCPYGT FGMDCRETN CQSGICDRGT GKCLKPFFQ YSVTKSSNRF VSLTEHDMAS GDGNIVREEV VKENAAGSPV MRKWLNPRHH HHHH
Purity:	> 90% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)

### Target Details

Target:	ESM1
Alternative Name:	Endocan/ESM1 ( <a href="#">ESM1 Products</a> )
Background:	ESM1, also known as endothelial cell-specific molecule 1 isoform a, is a secreted cysteine-rich dermatan sulfate proteoglycan. This protein primarily expressed by endothelial cells within the

## Target Details

vascular capillary network in the alveolar walls of the lung and also at lower level in kidney. The expression of it is upregulated by TNF-alpha, IL-beta or lipopolysaccharide and down-regulated by IFN-gamma. It plays roles on angiogenesis, sprouting, and may have potent implications in lung endothelial cell-leukocyte interaction. Also, this protein has dermatan sulfate (DS) that is covalently attached to serine 137. It binds using DS chain to hepatocyte growth factor (HGF) to enhance HGF mitogenic activity. Genetically engineered cells overexpressing ESM1 has been shown to induce tumor formation, suggesting that it may be involved in the pathophysiology of tumor growth in vivo. Recombinant human ESM1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Molecular Weight: 19.2 kDa (174aa)

NCBI Accession: [NP\\_008967](#)

Pathways: [Growth Factor Binding](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 0.25 mg/mL

Storage: 4 °C, -20 °C, -80 °C

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