

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 DCPQHCDSE CKSSPRCKRT VLDDCGCCRV CAAGRGETCY
RTVSGMDGMK CGPGLRCQPS NGEDPFGEEF GICKDCPYGT FGMDCRETCN CQSGICDRGT GKCLKPFFQ YSVTKSSNRF
VSLTEHDMAS GDGNIVREEV VKENAAGSPV MRKWLNPR

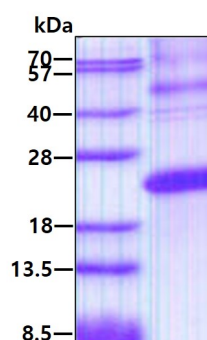
General References

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.