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



Image



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Overview

Quantity:	50 μg
Target:	ESM1
Protein Characteristics:	AA 20-184
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This ESM1 protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 90 %
Biological Activity Comment:	Endothelial cell-specific molecule 1 (ESM1) is a proteoglycan secreted by endothelial cells
	(primarily in the human lung and kidney tissues) and its mRNA expression is regulated by
	inflammatory cytokines. Endocan expression, which detected in various epithelia and
	adipocytes has been shown to be upregulated by vascular endothelial growth factor (VEGF),
	fibroblast growth factor 2 (FGF-2), TNF alpha, IL1 beta, or lipopolysaccharide and
	downregulated by IFN gamma. Genetically engineered cells overexpressing ESM1 induce tumor
	formation, implying that ESM1 might be involved in the pathophysiology of tumor growth in
	vivo. Besides, Lymphocyte Function Associated Antigen 1 Alpha (LFA1a) has been identified as
	an interactor of ESM1, thus a binding ELISA assay was conducted to detect the interaction of

recombinant human ESM1 and recombinant human LFA1a. Briefly, ESM1 were diluted serially

in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to LFA1a-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti- ESM1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ L stop solution to the wells and read at 450nm immediately. The binding activity of of ESM1 and LFA1a was shown in Figure 1, and this effect was in a dose dependent manner The binding activity of ESM1 with LFA1a.

Target Details

Target:	ESM1
Alternative Name:	Endothelial Cell Specific Molecule 1 (ESM1) (ESM1 Products)
Background:	Alternative Names: Endocan
Molecular Weight:	19kDa
UniProt:	Q9NQ30
Pathways:	Growth Factor Binding

Application Details

Application Notes:	Isoelectric Point: 6.7
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

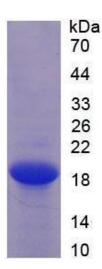


Image 1.