Datasheet for ABIN1589771

ESM1 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	ESM1
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ESM1 protein is labelled with His tag.

Product Details

Purpose:	Endocan/ESM-1
Sequence:	WSAKYAVDCP EHCDKTECRS SLRCKRTVLD DCGCCQVCAA GPGETCYRTV SGMDGVKCGP GLKCHFYSEE DDFGDEFGIC KDCPYGTFGM ECKETCNCQS GICDRVTGRC LDFPFFQYAA AKSPSRTSAS HTERDSASGD GNAVREEIGE GNAARPSVMK WLNPRTRHHH HHH
Specificity:	Chromosomal location:13 D2.2, 13
Characteristics:	Length (aa):173
Purity:	> 95 % by SDS-PAGE

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

Target Details

	capillary network in kidney and in the alveolar walls of the lung. Endocan expression has also been detected in different epithelia and in adipocytes. The expression of endocan is up-regulated by TNFα, IL1β or lipopolysaccharide and down-regulated by IFNγ. 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: Esm1, ESM-1, AV004503, 0610042H23Rik, endothelial cell-specific molecule 1
Molecular Weight:	19.07 kDa
Gene ID:	71690
NCBI Accession:	NM_023612, NP_076101
UniProt:	Q9QYY7
Pathways:	Growth Factor Binding

Application Details

Comment:	Cytokines & Growth Factors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Mouse Endocan/ESM-1 should be reconstituted in 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:	water
Storage:	RT,0 °C

Handling

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