Datasheet for ABIN7317534

ESM1 Protein (His tag)

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Overview

Quantity:	100 µg
Target:	ESM1
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ESM1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ESM1/Endocan Protein (His Tag)(Active)
Sequence:	Met 1-Arg184
Characteristics:	A DNA sequence encoding the human ESM1 (NP_008967.1) (Met1-Arg184) was expressed with a C-terminal polyhistidine tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells.When 8 x 104 cells/well are added to ESM1-His coated plates (10µg/mL, 100 µL/well), approximately 48% will adhere after 30 minutes at 37°C.

Target Details

Target:	ESM1

Target Details

Alternative Name:	ESM1/Endocan (ESM1 Products)
Background:	Background: ESM1 is a secreted protein which is produced by adipocytes. It has been noticed that ESM1 may play some role in obesity-associated vascular disease since circulating ESM-1 levels are reduced in the overweight and obese. ESM1 is mainly expressed in the endothelial cells in human lung and kidney tissues. The expression of ESM1 gene is regulated by cytokines, suggesting that it may play a role in endothelium-dependent pathological disorders. Recently, ESM1 has been described as a specific biomarker of tip cells during neoangiogenesis. Its expression has been shown to be increase in presence of pro-angiogenic growth factors such as VEGF or FGF-2. In hypervascularized cancers, overexpression of endocan has been detected by immunohistochemistry using monoclonal antibodies against ESM1. Synonym: endocan
Molecular Weight:	19.6 kDa
NCBI Accession:	NP_008967
Pathways:	Growth Factor Binding

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.