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Datasheet for ABIN7505407

ESM1 Protein (AA 22-184) (His tag)



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Quantity:	100 μg
Target:	ESM1
Protein Characteristics:	AA 22-184
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ESM1 protein is labelled with His tag.

Product Details

Sequence:	Ala 22-Arg 184
Characteristics:	A DNA sequence encoding the Mouse Esm1 protein (Q9QYY7) (Ala 22-Arg 184) was expressed with a N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	ESM1
Alternative Name:	Esm1 (ESM1 Products)
Background:	Abbreviation: Esm1
	Target Synonym: Endothelial cell-specific molecule 1,ESM-1,Esm1,Endocan,Esm1
	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.

Molecular Weight:

Calculated MW: 17.82 kDa

Observed MW: 15 kDa

UniProt:

Q9QYY7

Pathways:

Growth Factor Binding

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
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.
Expiry Date:	12 months