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Datasheet for ABIN7505093

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

Overview

Quantity:	100 µg
Target:	ESM1
Protein Characteristics:	AA 20-184
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ESM1 protein is labelled with His tag.

Product Details

Sequence:	Trp 20-Arg 184
Characteristics:	A DNA sequence encoding the Human ESM1 protein (Q9NQ30) (Trp 20-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: Endocan,endothelial cell-specific molecule 1,ESM1,ESM-1,IGFBP-rp6 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

Target Details

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: 18.04 kDa
 Observed MW: 25 kDa

UniProt: [Q9NQ30](#)

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