Recombinant Human ESM1 Protein (Tyr24-Arg184), His tagged

Cat. No. ESM1-2758H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human mEsm1 (Tyr24-Arg184) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Tyr24-Arg184
Description	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 Mass	19.41 kDa
Purity	>90 % as determined by SDS-PAGE.
Notes	For research use only.

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Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	ESM1 endothelial cell-specific molecule 1 [Homo sapiens (human)]
Official Symbol	ESM1
Synonyms	ESM1; endothelial cell-specific molecule 1; ESM-1; endocan;
Gene ID	11082
mRNA Refseq	NM_001135604
Protein Refseq	NP_001129076
MIM	601521
UniProt ID	Q9NQ30

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