

Recombinant Human Endothelial Cell-specific Molecule 1, His-tagged

Cat. No. ESM1-902H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ESM1 encoding the human mature ESM1 (Trp20-Arg184) with 6 His tag on the N-Terminus was expressed in <i>E. Coli</i> . This protein was purified by Ni-NTA column. MW=20KDa.
Species	Human
Source	E.coli
ProteinLength	20-184 a.a.
Description	Endothelial cell-specific molecule 1 is a protein that in humans is encoded by the ESM1 gene. This gene encodes a secreted protein which is mainly expressed in the endothelial cells in human lung and kidney tissues. The expression of this gene is regulated by cytokines, suggesting that it may play a role in endothelium-dependent pathological disorders. The transcript contains multiple polyadenylation and mRNA instability signals.
Sequence	Human mature ESM1 (Trp20-Arg184) 20WSNNYAVDCPQHCDSSSECKSSPRCKRTLVDGCGCCRVCAAGRGETCYRTVSGMDGMKCGLRCQPSNGEDPFGEEFGICKDCPYGTFGMDCRETCNCQSGICDRGTGKCLKFPFFQYSVTKSSNRFVSLTEHDMASGDGNIVREEVVKENAAGSPVMRKWLNPR184.
Purity	>95% in SDS gel.

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Formulation	Lyophilized 100 µg human mature ESM1 in 50 µl of TBS (20 mM Tris, 50mM NaCl, pH8.0). Carry free.
Application	Cell biology, ELISA.
Reconstitution	Add 500 µl deionized water to the vial to prepare a working stock solution at 200 µg/mL. Allow to set at least 30 minutes at 4°C, mix well.
Storage	Store lyophilized protein at -20°C or -70°C. Lyophilized protein is stable for up to 6 months from date of receipt at -70°C. Upon reconstitution, this protein can be stored at for a few weeks or at -70°C in a manual defrost freezer for long term storage (six months). Aliquot reconstituted protein to avoid repeated freezing / thawing cycles.

GENE INFORMATION

Gene Name	ESM1 endothelial cell-specific molecule 1 [Homo sapiens]
Synonyms	ESM1; endothelial cell-specific molecule 1; endocan; ESM-1 secretory protein; ESM-1
Gene ID	11082
mRNA Refseq	NM_001135604
Protein Refseq	NP_001129076
MIM	601521
UniProt ID	Q9NQ30
Chromosome Location	5q11

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Function

growth factor activity; insulin-like growth factor binding; protein binding

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