

Active Recombinant Mouse Endothelial Cell-Specific Molecule 1, His-tagged

Cat. No. Esm1-476M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Esm1 protein with a C-terminal 10-His tag was expressed in Murine myeloma cell line, NS0-derived. Trp20 - Arg184.
Species	Mouse
Source	Mammalian Cells
Protein Length	20-184 a.a.
Description	Esm1 (endothelial cell proteoglycan; also known as endothelial cell specific molecule 1 [ESM1]), is a 50 kDa, monomeric, secreted, cysteine-rich proteoglycan identified initially in endothelial cells of the kidney and lung. Mouse Esm1 is synthesized as a 184 amino acid (aa) precursor that contains a 21 aa signal sequence and a 20 kDa, 163 aa mature region. The N-terminal 2/3 of the molecule contains 18 cysteine residues and there are no potential N-linked glycosylation sites. Based on human Endocan, there are at least two potential O-linked glycosylation sites, one of which will likely be utilized on Ser at position 136 of the mature molecule.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Trp20

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MolecularWeight	19.4 kDa
Activity	Measured by the ability of the immobilized protein to support the adhesion of NIH/3T3 mouse embryonic fibroblasts. rmEndocan immobilized at 25 µg/mL, 100 µL/well, will mediate > 20% cell adhesion (100 µL/well at 0.5 x 10 ⁶ cells/mL).
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Esm1 endothelial cell-specific molecule 1 [Mus musculus]
Official Symbol	Esm1
Synonyms	Esm1; endothelial cell-specific molecule 1; ESM-1; AV004503; 0610042H23Rik; endothelial cell-specific molecule 1
Gene ID	71690
mRNA Refseq	NM_023612
Protein Refseq	NP_076101

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Chromosome Location	13 D2.2; 13
Function	insulin-like growthfactor binding; molecular_function

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