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## Product Data Sheet

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Product Name: ESM1 Human, SF9  
 Cat. No.: GP23422  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Endothelial Cell Specific Molecule 1; Endothelial Cell-Specific Molecule 1; ESM-1; Endocan.		
Amino Acid Sequence	ADLWSNNYAV DCPQHCDSSSE CKSSPRCKRT VLDDCGCCRV CAAGRGETCY RTVSGMDGMK CGPGLRCQPS NGEDPFGEEF GICKDCPYGT FGMDCRETCN CQSGICDRGT GKCLKPFFQ YSVTKSSNRF VSLTEHDMAS GDGNIVREEV VKENAAGSPV MRKWLNPRHH HHHH.		
Formulation	ESM1 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

### Introduction

ESM1, also known as Endothelial cell-specific molecule 1 is a protein encoded by a gene called ESM1 in humans. ESM1 is a secreted protein that is highly expressed in human kidney and lung tissues (in the endothelial cells). There are suggestions regarding the protein's involvement in endothelium-dependent pathological diseases, due to its regulation that is performed by cytokines.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

ESM1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 174 amino acids (20-184 a.a.) and having a molecular mass of 19.2 kDa. (Molecular size on SDS-PAGE will appear at approximately 18-28 kDa). ESM1 is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic

**Caution: Product has not been fully validated for medical applications. For research use only.**

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