

## 32-13220: ESM1 Human, HEK

**Alternative Name :** Endothelial cell-specific molecule 1, ESM-1, ESM1, endocan.

### Description

Source: HEK293 cells.

Filtered White lyophilized (freeze-dried) powder.

Endothelial cell-specific molecule 1 (ESM1) is a proteoglycan secreted by endothelial cells (mostly in the human lung and kidney tissues) and its mRNA expression is regulated by inflammatory cytokines. ESM1 has potent implications in lung endothelial cell-leukocyte interactions. In addition, ESM1 expression is detected in various epithelia and in adipocytes. ESM1 is involved in angiogenesis and it also promotes angiogenic sprouting. ESM1 expression is upregulated by TNF alpha, IL1 beta, or lipopolysaccharide and downregulated by IFN gamma. Genetically engineered cells overexpressing ESM1 induce tumor formation, implying that ESM1 might be involved in the pathophysiology of tumor growth in vivo.

ESM1 Human Recombinant produced in HEK293 cells is a single, glycosylated polypeptide chain (a.a 20-184) containing 175 amino acids including a 10 a.a C-terminal His tag. The total molecular mass is 19.5kDa (calculated).

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 95.0% as determined by SDS-PAGE.

**Content :** ESM1 filtered (0.4 µm) and lyophilized from 0.5mg/ml in phosphate buffered saline.  
It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. ESM1 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

**Storage condition :** Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

**Amino Acid :** WSNNYAVDCP QHCDSSSECKS SPRCKRTVLD DCGCCRVCAA GRGETCYRTV SGMDGMKCGP  
GLRCQPSNGE DPFGEFEGIC KDCPYGTFGM DCRETCNCQS GICDRGTGKC LKFPFFQYSV TKSSNRFVSL  
TEHDMASGDG NIVREEVVEKE NAAGSPVMRK WLNPR HHHHH HHHHH.