

ESM-1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70151
Synonyms:	rHuEndothelial cell-specific molecule 1/ESM-1, His; Endothelial Cell-Specific Molecule 1; ESM-1; ESM1
Species:	Human
Source:	HEK293
Accession:	AAH11989.1/Q9NQ30 (W20-R184)
Gene ID:	11082
Molecular Weight:	Approximately 20-25 kDa due to the glycosylation

PROPERTIES

AA Sequence	<p> W S N N Y A V D C P Q H C D S S E C K S S P R C E R T V L D D C G C C R V C A A G R G E T C Y R T V S G M D G M K C G P G L R C Q P S N G E D P F G E E F G I C K D C P Y G T F G M D C R E T C N C Q S G I C D R G T G K C L K F P F F Q Y S V T K S S N R F V S L T E H D M A S G D G N I V R E E V V K E N A A G S P V M R K W L N P R </p>
Biological Activity	Measured by its ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. The ED ₅₀ for this effect is 0.7606 µg/mL, corresponding to a specific activity is 1.31×10 ³ units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	ESM-1 (Endocan) plays a crucial role in angiogenesis, promoting the sprouting of new blood vessels. It is implicated in lung endothelial cell-leukocyte interactions, suggesting its potential significance in regulating immune responses within the pulmonary vasculature.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA