
Product Data Sheet

Product Name: ESM1 Human, HEK
 Cat. No.: GP23421
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK293 cells.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Endothelial cell-specific molecule 1; ESM-1; ESM1; endocan.		
Amino Acid Sequence	WSNNYAVDCP QHCDSSECKS SPRCKRTVLD DCGCCRVCAA GRGETCYRTV SGMDGMKCGP GLRCQPSNGE DPFGEFEGIC KDCPYGTFGM DCRETNCNCQS GICDRGTGKC LKFPFFQYSV TKSSNRFVSL TEHDMASGDG NIVREEVVKE NAAGSPVMRK WLNPR HHHHH HHHHH.		
Solubility	It is recommended to add 200µl 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.		
Formulation	ESM1 filtered (0.4 µm) and lyophilized from 0.5mg/ml in phosphate buffered saline.		

Introduction

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.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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 .

Background

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 46.0kDa (calculated).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA