9051 Mira Mesa Blvd, #910094
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ESM1 Human

Endothelial Cell-Specific Molecule 1 Human Recombinant
RCP0780

Product Overview

Name	ESM1 Human
Description	
Endothelial Cell-Specific Molecule 1 Human Recombinant	
Accession (Primary)	Q9NQ30
Synonyms	
Endothelial cell-specific molecule 1, ESM-1, ESM1, endocan.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
ESM1 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2M Urea and 10% glycerol.	
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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS WSNNYAV DCPQHCDSSE CKSSPRCKRT VLDDCGCCRV CAAGRGETCY RTVSGMDGMK CGPGLRCQPS NGEDPFGEEF GICKDCPYGT FGMDCRETCN CQSGICDRGT GKCLKFPFFQ	

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YSVTKSSNRF VSLTEHDMAS GDGNIVREEV VKENAAGSPV MRKWLNPR.

Precautions

ESM1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9NQ30)