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ESM1 Human

Description:ESM1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 188 amino acids (20-184 a.a.) and having a molecular mass of 20.5kDa.ESM1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:PRPS-1335

For research use only.

Synonyms: Endothelial cell-specific molecule 1, ESM-1, ESM1, endocan.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSWSNNYAV DCPQHCDSSE CKSSPRCKRT VLDDCGCCRV CAAGRGETCY RTVSGMDGMK CGPGLRCQPS NGEDPFGEEF GICKDCPYGT FGMDCRETCN CQSGICDRGT GKCLKFPFFQ YSVTKSSNRF VSLTEHDMAS GDGNIVREEV VKENAAGSPV MRKWLNPR.

Purity: Greater than 90.0% as determined by SDS-PAGE.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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