

Human ESM1, Tag Free Protein

HA211552



Product name:	Human ESM1, Tag Free
Species reactivity:	Human
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the human ESM1 protein (Q9NQ30) (Trp 20-Arg 186,R44A,R45A,S156A) was expressed with tag free.

Background: Endothelial cell-specific molecule 1 is a protein that in humans is encoded by the ESM1 gene. This gene encodes a secreted protein which is mainly expressed in the endothelial cells in human lung and kidney tissues. The expression of this gene is regulated by cytokines, suggesting that it may play a role in endothelium-dependent pathological disorders. The transcript contains multiple polyadenylation and mRNA instability signals. The ESM-1 gene product is also called endocan since 2001, when it was characterized as a dermatan sulfate proteoglycan by Bechard et al. Recently, endocan / ESM-1 has been described as a specific biomarker of tip cells during neoangiogenesis by independent teams. Endocan expression has been shown to be increase in presence of pro-angiogenic growth factors such as vascular endothelial growth factor (VEGF) or fibroblast growth factor 2 (FGF-2). In hypervascularized cancers, overexpression of endocan has been detected by immunohistochemistry using monoclonal antibodies against endocan / ESM-1.

Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per µg by the LAL method.
Fragment region:	ESM1 (20-184(R44A,R45A,S156A))
Source:	HEK293
Accession:	Q9NQ30-1
Predicted molecular mass:	18.7 kD
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 µg/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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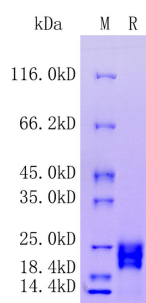


Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".
