

Recombinant Human Epidermal Growth Factor Like Protein 7 (MEGF7)

Instruction Manual

Catalog Number	C-60171
Description	EGF-L7 (Epidermal Growth Factor Like Protein 7, Multiple EGF Like Domains Protein 7, VE Statin) is a multi-domain protein containing two EGF like domains and one EMI domain. It is expressed almost exclusively in endothelial cells and functions to promote normal development of the vascular system, particularly tubulogenesis. EGF-L7 is capable of antagonistic binding to Notch receptors resulting in the inhibition of Notch signaling in HUVEC and neural stem cells. In research models inducing hypoxia and subsequent reoxygenation, (H/R), EGF-L7 can inhibit ICAM-1 expression and enhance the inhibition of NF-kappaB activation. Additionally, EGF-L7 can chemoattract endothelial cells and bind to the extracellular matrix. The overexpression of EGF-L7 is observed in various cancers, and is generally correlated with increased metastasis and a poor prognosis. Recombinant human EGF-L7 produced in E. coli is a 28 kDa protein containing 251 amino acid residues.
Quantity	10 µg
Molecular Mass	28 kDa
Specific Activity	Data not yet available.
Source	E. coli
Purity	Greater than 98% as determined by SDS-PAGE and HPLC analysis.
Endotoxin Level	< 0.1 ng per µg (1EU/µg) of recombinant protein.
Biological Activity	Data not yet available.
Formulation	Sterile-filtered, white, lyophilized (freeze-dried) powder. The protein was lyophilized from a sterile-filtered (0.2 micron) protein solution with no additives.
Reconstitution	Please Note: Always centrifuge product briefly before opening vial. The lyophilized protein should be reconstituted in sterile, ultra-pure water to a concentration of 0.1 - 1.0 mg mg/ml. This solution can then be diluted into other aqueous buffers and stored at -20°C for future use.
Storage & Stability	The lyophilized protein, though stable at room temperature for up to 3 weeks, is best stored desiccated at -20°C. Reconstituted protein should be used immediately or stored long-term in undiluted working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (0.1% endotoxin-free HSA or BSA; e.g. Cat.No. C-69500A). Avoid repeated freeze-thaw cycles.

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