

AR31111PU-S**Human EGFL7 - Purified****Alternate names:**

EGF like protein 7, EGF-like protein 7, Epidermal growth factor-like protein 7, MEGF7, Multiple EGF-like domains protein 7, Multiple epidermal growth factor-like domains protein 7, NOTCH4-like protein, PRO1449, UNQ187, VE-statin, Vascular endothelial statin, Zneu1

Quantity:

2 µg

Background:

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.

Uniprot ID:[Q9UHF1](#)**NCBI:**[NP_057299.1](#)**GeneID:**[51162](#)**Species:**

Human

Source:

E. coli

Format:**State:** Lyophilized (0.2µ Sterile filtered) purified protein with no additives**Purity:** >98% pure by SDS-PAGE gel and HPLC analyses**Reconstitution:** Restore in water to a concentration of 0.1-1.0 mg/ml.

Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Description:

Recombinant Human EGF-L7 is a 27.4 kDa protein containing 251 amino acid residues.

AA Sequence:

MYRPGRRVCA VRAHGDPVSE SFVQRVYQPF LTTCDGHRAC STYRTIYRTA YRRSPGLAPA
RPRYACCPGW KRTSGLPGAC GAAICQPPCR NGGSCVQPGR CRCPAGWRGD TCQSDVDECS
ARRGGCPQRC VNTAGSYWCQ CWEHGHSLSAD GTLCVPKGGP PRVAPNPTGV DSAMKEEVQR
LQSRVDLLEE KLQLVLAPLH SLASQALEHG LPDPGSLLVH SFQQLGRIDS LSEQISFLEE
QLGSCSCKKD S

Molecular weight: 27.4 kDa (251 amino acids)

Storage:

Prior to reconstitution store at 2-8°C for 6 months, at RT for one month or at -20°C to -80°C for longer.

Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.