Recombinant Mouse EGFL7

Cat No:HR2R2104

For research use only

Overview

Quantity	25 ?g
Gene Symbol	EGFL7
Gene ID	353156
Accession	Q9QXT5
Alternative Name	EGF-like protein 7, Multiple epidermal growth factor-like domains protein 7, Multiple EGF-like domains protein 7, NOTCH4-like protein, Vascular endothelial statin, VE-statin, Zneu1 Recombinant Mouse Epidermal Growth Factor-Like Protein 7 (EGFL7)
Species	Mouse
Source	Insect cells
Description	EGFL7 is a secreted protein that contains one Emilin-like (EMI) domain and two epidermal growth factor (EGF) domains - one of which binds calcium. Based on these domains, it has been hypothesized that EGFL7 may self-assemble like extracellular matrix (ECM) proteins and, thereby, incorporate into the ECM. EGFL7 has been reported to stimulate cell adhesion as well as motility in a manner similar to ECM proteins. While primarily expressed by developing ECs, EGFL7 is also known to be expressed by primordial germ cells and some central nervous system neurons. Interestingly, EGFL7 expression markedly decreases in ECs in postnatal life, but can be strongly up-regulated after various tissue injuries that lead to increased angiogenic responses. DNA sequence spanning the mature chain of Mouse EGFL7(VE-Statin) isoform-1 (and inclusive of a C-terminal polyHis tag) was expressed in Insect cells. Recombinant Mouse EGFL7 is a monomer (273 residues) that migrates at approximately 33 kDa under reducing conditions in an SDS-PAGE.
Functions	The activity was determined by the ability to support adhesion of HUVEC cells.
Formulation	Lyophilized from a 0.2 ?m filtered PBS solution pH 7.4
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	33
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method
Shipping Condition	Ambient Temperature

Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.