

Active Recombinant Human EMILIN1 protein, His-tagged

Cat. No. EMILIN1-625H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human EMILIN1 protein(Q9Y6C2)(806~1016 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	806-1016 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Elastin Microfibril Interface Located Protein 1 (EMILIN1) is a glycoprotein that plays an important role in the extracellular matrix (ECM). It is widely present in the extracellular matrix of arteries, lymphatic vessels and other tissues. EMILIN1 plays an important role in several biological processes, such as participating in the biosynthesis of elastic fibers (elastogenesis), maintaining vascular cell morphology and regulating cell signaling. Besides, Integrin Beta 1 (ITGb1) has been identified as an interactor of EMILIN1, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human EMILIN1 and recombinant human ITGb1. Briefly, EMILIN1 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to ITGb1-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-EMILIN1 pAb, then aspirated and washed 3 times. After incubation with HRP

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labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human EMILIN1 and recombinant human ITGb1 was shown, the EC50 for this effect is 6.64 ug/mL.

Molecular Mass	28.8kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	EMILIN1 elastin microfibril interfacier 1 [Homo sapiens]
Official Symbol	EMILIN1
Synonyms	EMILIN1; elastin microfibril interfacier 1; EMILIN-1; DKFZp586M121; gp115; elastin microfibril interface located protein; elastin microfibril interface-located protein 1; EMI; EMILIN;
Gene ID	11117
mRNA Refseq	NM_007046

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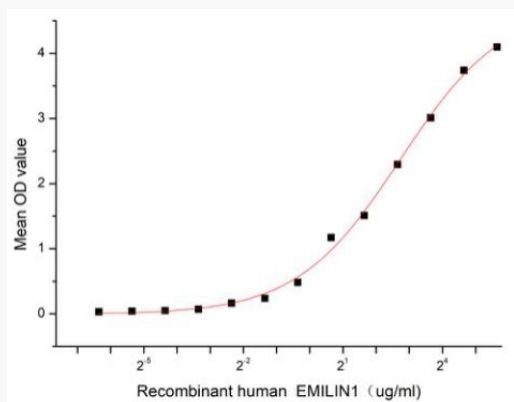
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Protein Refseq NP_008977

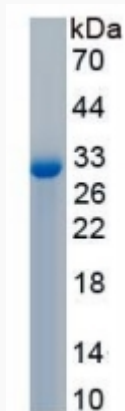
MIM 130660

UniProt ID Q9Y6C2

Activity



SDS-PAGE



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