

Elastin Microfibril Interface Located Protein 1 (EMILIN1) Active Protein | EMILIN1 active protein

Active Elastin Microfibril Interface Located Protein 1 (EMILIN1)

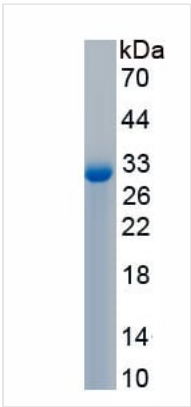
CATALOG # AAA161733	HOST E. coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Activity Assay
-------------------------------	------------------------	---	---------------------------------------

PRODUCT SYNONYMS

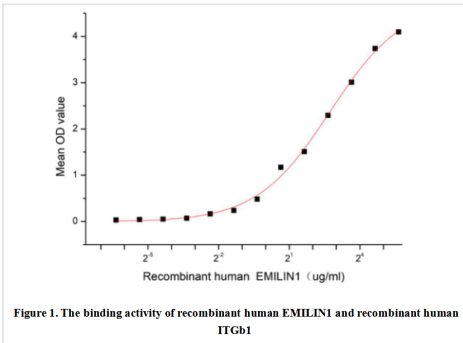
Elastin Microfibril Interface Located Protein 1 (EMILIN1); Active Elastin Microfibril Interface Located Protein 1 (EMILIN1); Elastin Microfibril Interface Located Protein 1; EMI; gp115; Elastin Microfibril Interfacer 14; EMILIN1 active protein

PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>80%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 300ug/mL (varies by lot)
Applicable Applications for EMILIN1 active protein	Activity Assay
Source	Prokaryotic expression
Residues	Gln806~Ala1016
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	5.1
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



SDS-PAGE
Sample: Active recombinant EMILIN1, Human



Bioactivity

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 ul were then transferred to ITGb1-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-EMILIN1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL 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 in Figure 1, the EC50 for this effect is 6.64 ug/mL.

```
QLSLK DLTGPAGEAG PGPFGGLQGP PGPAGPPGSP GKDGQEGPIG
PPGPQGEQGV EGAPAAPVPQ VAFSAALSLP RSEPTVPFD RVLLNDGGYY
DPETGVFTAP LAGRYLLSAV LTGHRHEKVE AVLSPSNQGV ARVDSGGYEP
EGLENKPAVE SQSPSGTLGV FSLILPLQAG DTVCVDLVWG QLAHSEEPLT
IFSGLLYGD PELEHA
```

Sequence

ADDITIONAL INFORMATION

Product Categories/Family for EMILIN1 active protein	Active proteins
--	-----------------

NCBI AND UNIPROT INFORMATION

NCBI GI #	5901944
NCBI GeneID	11117
NCBI Accession #	NP_008977.1
NCBI GenBank Nucleotide #	NM_007046.3
UniProt Accession #	Q9Y6C2; Q53SY9; Q96G58; Q9UG76; A5PL03
Molecular Weight	Predicted Molecular Mass: 28.8kDa Accurate Molecular Mass: 31kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	EMILIN-1
NCBI Official Synonym Full Names	elastin microfibril interacer 1
NCBI Official Symbol	EMILIN1
NCBI Official Synonym Symbols	EMI; gp115; EMILIN
NCBI Protein Information	EMILIN-1; elastin microfibril interface located protein; elastin microfibril interface-located protein 1

UniProt Protein Name	EMILIN-1
UniProt Gene Name	EMILIN1
UniProt Synonym Gene Names	EMI; Elastin microfibril interfacier 1
UniProt Entry Name	EMIL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/elastin-microfibril-interface-located-protein-1-emilin1/161733>