

## Human EDP (Elastin-derived peptides) ELISA Kit | EDP elisa kit

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CATALOG #  
**AAA250444**

REACTIVITY  
**Human**

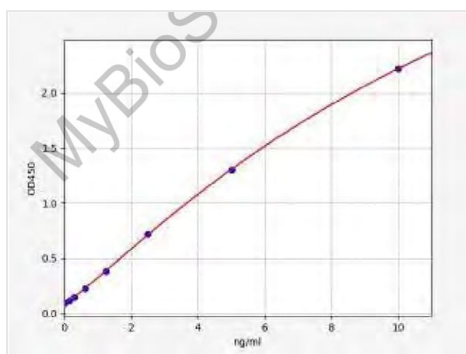
### PRODUCT SYNONYMS

EDP (Elastin-derived peptides); Human EDP (Elastin-derived peptides) ELISA Kit; Elastin; Tropoelastin; ELN; EDP elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                        |
| Specificity             | Specifically recognize EDP, no obvious cross reaction with other analogues                                                                                   |
| Assay Type              | Sandwich                                                                                                                                                     |
| Samples                 | Serum, plasma, cell culture supernatant and other biological samples                                                                                         |
| Detection Range         | 0.156-10ng/ml                                                                                                                                                |
| Sensitivity             | 0.094ng/ml                                                                                                                                                   |
| Intra-assay Precision   | Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.                                                    |
| Inter-assay Precision   | Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.                                        |
| Preparation and Storage | Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Related Product Information for EDP elisa kit | <p>Background: Elastin-derived peptides are small fragments of elastin protein generated by enzymatic degradation of elastic fibers in the extracellular matrix. They play roles in tissue remodeling, wound healing, and inflammation by interacting with cell surface receptors and signaling pathways. Elastin-derived peptides regulate cellular processes such as proliferation, migration, and matrix metalloproteinase expression, contributing to tissue repair and fibrosis. Dysregulation of elastin metabolism and peptide signaling is implicated in various pathological conditions, including cardiovascular diseases, pulmonary disorders, and skin aging. Elastin-derived peptides are investigated for their therapeutic potential in tissue engineering, wound management, and anti-fibrotic treatments</p> <p>Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti EDP antibody was precoated onto the 96-well plate. The biotin conjugated anti EDP antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with EDP conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of EDP in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 525313599                                                                                      |
| NCBI GeneID                      | 2006                                                                                           |
| NCBI Accession #                 | NP_001265868.1                                                                                 |
| NCBI GenBank Nucleotide #        | NM_001278939.1                                                                                 |
| UniProt Accession #              | P15502; O15336; O15337; Q14233; Q14234; Q14235; Q14238; Q6P0L4; Q6ZWJ6; Q75MU5; Q7Z316; B3KTS6 |
| Molecular Weight                 | 68,469 Da                                                                                      |
| NCBI Official Full Name          | elastin isoform m                                                                              |
| NCBI Official Synonym Full Names | elastin                                                                                        |
| NCBI Official Symbol             | ELN                                                                                            |
| NCBI Official Synonym Symbols    | WS; WBS; SVAS                                                                                  |
| NCBI Protein Information         | elastin; tropoelastin                                                                          |
| UniProt Protein Name             | Elastin                                                                                        |
| UniProt Gene Name                | ELN                                                                                            |
| UniProt Entry Name               | ELN_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.