

## Collagen Type I Alpha 1 (COL1a1) Active Protein | COL1a1 active protein

Active Collagen Type I Alpha 1 (COL1a1)

|                               |                          |                                                     |
|-------------------------------|--------------------------|-----------------------------------------------------|
| CATALOG #<br><b>AAA153033</b> | HOST<br><b>293F Cell</b> | APPLICATIONS<br><b>Activity Assay, Cell Culture</b> |
|-------------------------------|--------------------------|-----------------------------------------------------|

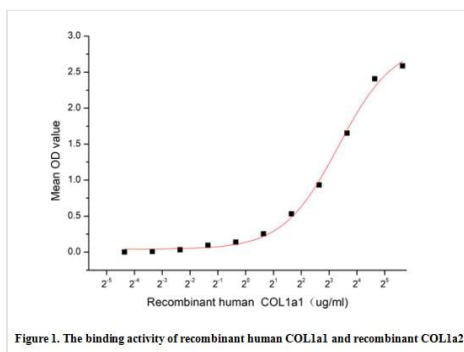
### PRODUCT SYNONYMS

Collagen Type I Alpha 1 (COL1a1); Active Collagen Type I Alpha 1 (COL1a1); Collagen Type I Alpha 1; COL1a1 active protein (eukaryotic; 293F Cell); Human; COL-1A1; COL1-A1; COL1A-1; OI4; Collagen Alpha-1(I)chain; COL1a1 active protein

### PRODUCT SPECIFICATIONS

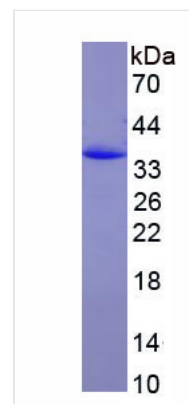
|                                                   |                                                                                                              |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Host                                              | 293F Cell                                                                                                    |
| Purity/Purification                               | Greater than 90% by SDS-PAGE                                                                                 |
| Form/Format                                       | PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.<br>Freeze-dried powder                                       |
| Sequence Positions                                | Asp1219~Leu1464                                                                                              |
| Applicable Applications for COL1a1 active protein | Activity Assay, Cell Culture                                                                                 |
| Expression System                                 | Eukaryotic expression                                                                                        |
| Species                                           | Human                                                                                                        |
| Tag                                               | N-terminal His                                                                                               |
| Endotoxin Level                                   | <1.0EU per 1ug (determined by the LAL method)                                                                |
| Isoelectric Point                                 | 5                                                                                                            |
| Research Area                                     | Metabolic pathway                                                                                            |
| Preparation and Storage                           | Store at 2-8 degree C for one month, -80 degree C for 12 months<br>Stable for 12 months if correctly stored. |

### IMAGES



#### Bioactivity

Type I collagen is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. It is a heterotrimer that consists of two alpha 1 chains and one alpha 2 chain, although homotrimers consisting of three identical alpha 1 chains are also found.



#### SDS-PAGE

Figure. SDS-PAGE

ADDITIONAL INFORMATION

|                                                     |                 |
|-----------------------------------------------------|-----------------|
| Product Categories/Family for COL1a1 active protein | Active proteins |
|-----------------------------------------------------|-----------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 296439504                                                                                                                                                                                                                            |
| NCBI GeneID                      | 1277                                                                                                                                                                                                                                 |
| UniProt Accession #              | P02452; O76045; P78441; Q13896; Q13902; Q13903; Q14037; Q14992; Q15176; Q15201; Q16050; Q59F64                                                                                                                                       |
| Molecular Weight                 | 138,941 Da                                                                                                                                                                                                                           |
| NCBI Official Full Name          | Collagen alpha-1(I) chain                                                                                                                                                                                                            |
| NCBI Official Synonym Full Names | collagen, type I, alpha 1                                                                                                                                                                                                            |
| NCBI Official Symbol             | COL1A1                                                                                                                                                                                                                               |
| NCBI Official Synonym Symbols    | OI4                                                                                                                                                                                                                                  |
| NCBI Protein Information         | collagen alpha-1(I) chain; collagen alpha-1(I) chain; alpha-1 type I collagen; pro-alpha-1 collagen type 1; collagen alpha 1 chain type I; collagen alpha-1(I) chain preproprotein; collagen of skin, tendon and bone, alpha-1 chain |
| UniProt Protein Name             | Collagen alpha-1(I) chain                                                                                                                                                                                                            |
| UniProt Gene Name                | COL1A1                                                                                                                                                                                                                               |
| UniProt Entry Name               | CO1A1_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.

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Online datasheet: <https://www.aaabiotech.com/293f-active-protein/collagen-type-i-alpha-1-col1a1/153033>