

## ARG83041 Human Pro-Collagen I alpha 1 ELISA Kit

Package: 96 wells

Store at: 4°C

### Summary

Product Description	ARG83041 Human Pro-Collagen I alpha 1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Pro-Collagen I alpha 1 in serum, plasma (heparin), ascites, urine and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Not cross-reacts with: Human BMP2, BMP4, TIE2, Collagen II, Collagen III alpha1. Mouse BCMA, VEGF, TNF alpha, Collagen II. Rat Collagen II
Target Name	Pro-Collagen I
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (heparin), ascites, urine and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 10%
Alternate Names	COL1A1, Collagen Type I Alpha 1 Chain, OI4, Collagen, Type I, Alpha 1, Collagen Alpha-1(I) Chain, Alpha-1 Type I Collagen, Collagen Of Skin, Tendon And Bone, Alpha-1 Chain, Collagen Alpha-1(I) Chain Preproprotein, Type I Procollagen Alpha 1 Chain, Collagen Alpha 1 Chain Type I, Pro-Alpha-1 Collagen Type , Alpha1(I) Procollagen, Type I Proalpha, EDSARTH1, CAFYD, EDSC, OI1, OI2, OI3

### Application Instructions

Assay Time	~ 4 hours
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### Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol	COL1A1
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Gene Full Name

Collagen Type I Alpha 1 Chain

Background

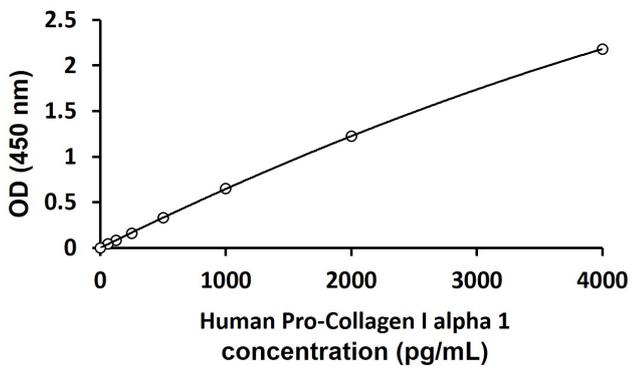
This gene encodes the pro-alpha1 chains of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalgleish, Feb 2008]

Function

Type I collagen is a member of group I collagen (fibrillar forming collagen). [UniProt]

Highlight

## Images



ARG83041 Human Pro-Collagen I alpha 1 ELISA Kit curve image

ARG83041 Human Pro-Collagen I alpha 1 ELISA Kit run with optical density reading at 450 nm