

ARG81269 Human Pro-Collagen I alpha 1 ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

Product Description	ARG81269 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 or cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Pro-Collagen I
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15 pg/ml
Sample Type	Serum, plasma or cell culture supernatants.
Standard Range	31.25 - 2000 pg/ml
Sample Volume	100 µl
Alternate Names	OI1; OI2; OI3; OI4; EDSC; Collagen alpha-1(I) chain; Alpha-1 type I collagen

Application Instructions

Assay Time	~ 3.5 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
Gene Full Name	collagen, type I, alpha 1
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. Dalglish, Feb 2008]

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

Highlight

Related products:

[Collagen I antibodies](#); [Collagen I ELISA Kits](#); [Collagen I Duos / Panels](#);

Related news:

[New antibody panels for Myofibroblasts and CAFs](#)

New ELISA data calculation tool:

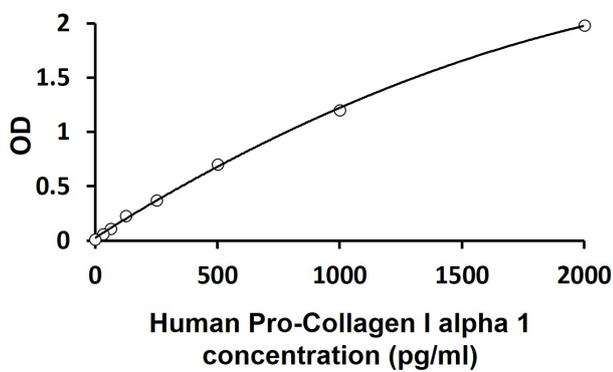
[Simplify the ELISA analysis by GainData](#)

PTM

Proline residues at the third position of the tripeptide repeating unit (G-X-P) are hydroxylated in some or all of the chains. Proline residues at the second position of the tripeptide repeating unit (G-P-X) are hydroxylated in some of the chains.

O-linked glycan consists of a Glc-Gal disaccharide bound to the oxygen atom of a post-translationally added hydroxyl group.

Images



ARG81269 Human Pro-Collagen I alpha 1 ELISA Kit standard curve image

ARG81269 Human Pro-Collagen I alpha 1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.