

Recombinant Human COL1A1 / Collagen, Type I, Alpha 1 protein

Cat. No. COL1A1-1207H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL1A1 active fragments was metabolized and expressed by Pichia pastoris using synthetic biology technology. Sponge like solids are obtained by solid-liquid separation, ultrafiltration, chromatography, freeze-drying, and other processes from the fermentation broth. It has the characteristics of high purity, high activity, high stability, high homology and low immunogenicity.
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Species	Human
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Source	P.pastoris
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Description	Collagen, type I, alpha 1, also known as COL1A1, is a human gene that encodes the major component of type I collagen, the fibrillar collagen found in most connective tissues, including cartilage. Collagen is a protein that strengthens and supports many tissues in the body, including cartilage, bone, tendon, skin and the white part of the eye (sclera). The COL1A1 gene produces a component of type I collagen, called the pro-alpha1(I) chain. This chain combines with another pro-alpha1(I) chain and also with a pro-alpha2(I) chain (produced by the COL1A2 gene) to make a molecule of type I procollagen. These triple-stranded, rope-like procollagen molecules must be processed by enzymes outside the cell. Once these molecules are processed, they arrange themselves into long, thin fibrils that cross-link to one another in the spaces around cells. The cross-links result in the formation of very strong mature type I collagen fibers.
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Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>90% as determined by SDS-PAGE.
Applications	Can be used for moisturizing, tightening, wrinkle removing, and anti-aging products; Suitable dosage forms include toner, gel, essence, lotion, cream and facial mask.
Usage	Recommended Dosage: 0.01%~1%
Storage	Sealed, stored at 0~4°C, recommended for long-term storage at -20 °C~-15 °C.
Reconstitution	Reconstitute in sterile water for a stock solution. For cosmetic addition, it is recommended to add in the final stage of cosmetic production, adding temperature does not exceed 40 °C, mixed evenly.

GENE INFORMATION

Gene Name	COL1A1 collagen, type I, alpha 1 [Homo sapiens]
Official Symbol	COL1A1
Synonyms	COL1A1; collagen, type I, alpha 1; collagen alpha-1(I) chain; OI4; 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;
Gene ID	1277
mRNA Refseq	NM_000088
Protein Refseq	NP_000079

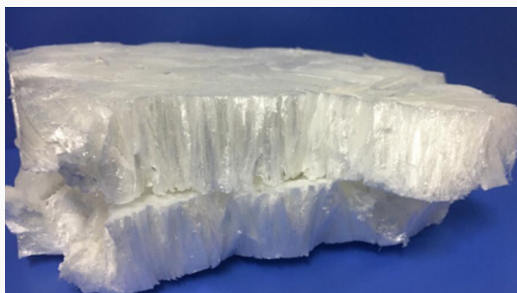
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UniProt ID

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