Recombinant Human Collagen, Type III, Alpha 1

Cat. No. COL3A1-1957H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human collagen-III encoding proalpha (III) and both alpha and beta subunits of the prolyl hydoxylase were coexpressed in the yeast*Pichia Pastoris*. Procollagen III was converted to mature collagen by controlled proteinase digestion.
Species	Human
Source	P.pastoris
Description	Collagen, a major component of the extracellular matrix, is a fibrous protein that provides tensile strength to tissues giving them structural integrity. Collagen and its derivative, gelatin, have been widely used in medical, pharmaceutical and consumer products for more than 100 years. Products that contain animal-derived collagen can induce potentially harmful inflammatory or immune responses in humans and pose risk of contamination with viruses or prions, potentially life-threatening pathogens. Recombinant collagens are essentially identical to the native collagen protein thereby reducing the risk of inflammation, immune response, and disease as compared to animal-sourced collagen.
Physical Appearance	Sterile filtered liquid.
Purity	≥95% as determined by SDS-PAGE.
Formulation	3.5 mg/ml in 10 mM HCl.
Storage Conditions	Recombinant Human Collagenase-III should be stored at 2-8°C.

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GENE INFORMATION

Gene Name	COL3A1 collagen, type III, alpha 1 [Homo sapiens]
Synonyms	collagen, type III, alpha 1; EDS4A; FLJ34534; COL3A1; collagen alpha-1(III) chain; collagen, fetal; alpha1 (III) collagen; Ehlers-Danlos syndrome type IV, autosomal dominant; collagen type III alpha 1
Gene ID	1281
mRNA Refseq	NM_000090.3
Protein Refseq	NP_000081.1
MIM	120180
UniProt ID	P02461
Chromosome Location	2q31
Pathway	ECM-receptor interaction; Focal adhesion; Axon guidance; Signaling by PDGF
Function	SMAD binding; extracellular matrix structural constituent; integrin binding; platelet-derived growth factor binding; protein binding

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