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Collage recombinant human™ collagen type I
Catalog number: W1019
VIRGIN HUMAN COLLAGEN TYPE I FOR LABORATORY RESEARCH

DESCRIPTION:
Collage recombinant human™ collagen is a Type I monomeric collagen sterile solution, approximately 3 mg/ml in 10 mM HCl, pH 2, available in 10, 30, 100 or 333 ml volumes. Collage is derived from tobacco plants transformed with the genes for human Type I collagen.

CHARACTERIZATION:
- **Fibrillogenesis:** >70%.
- **Purity: Collage** recombinant human™ collagen is pure collagen type I (>97%, no other type of collagen). Isolated from transgenic tobacco plants grown in a certified facility.
- **Polyacrylamide Gel Electrophoresis (PAGE):** SDS-PAGE demonstrates the banding pattern of type I collagen, with the majority of protein being monomeric alpha1 and alpha2 polypeptides.
- **Endotoxin: Collage** recombinant human™ collagen contains low level of endotoxin. The endotoxin level for each lot can be obtained by approaching CollPlant.

STORAGE:
Collage should be stored at 2 °C -10°C. Freezing is not recommended.

RECOMMENDED PROTOCOLS:
- **Preparation of collagen gel:** 10x fibrillogenesis buffer contains 162 mM sodium phosphate dibasic (Na_2HPO_4) adjusted to pH 11.2 with 10 N NaOH, filter sterilized. Mix 9 volumes of **Collage** with 1 volume of 10x fibrillogenesis buffer. Mix well and incubate for 4 to 16 hours at 25˚C to 27˚C.
- **Coating of tissue culture dishes:** Use 3 to 10 microgram **Collage** per 1 cm^2 dish area. For each cell type and plate type an optimization may be required. Dilute **Collage** in 10 mM HCl or PBS. Apply the diluted Collage to a tissue culture plate and allow to dry overnight in a laminar flow hood with the plate lid open. Aspirate gently the remaining liquid from the coated wells. Wash twice gently with PBS.

For technical support, please contact: collage@collplant.com

Lot number: XXXXXX Expiry date: XXXXXXX