

ELISA Grade Human Type I Collagen

Catalog # 1005

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION:	Highly purified type I collagen (treated with 3M guanidine, DEAE-cellulose and Na ₂ HPO ₄)
APPLICATION:	Ideal as an ELISA antigen for detecting antibodies specific to human type I collagen in sera from experimental animals and humans, such as collagen-induced arthritis (CIA) models and patients with arthritis or other diseases, as well as normal controls to study the diversity of anti-collagen antibodies.
QUANTITY:	1 mL
FORM:	0.5 mg/mL solution in 0.05M acetic acid
SOURCE:	Human placenta
MOLECULAR WEIGHT:	300 Kd
PURITY:	>99% by SDS-PAGE, free of pepsin and proteoglycans
USAGE:	It is recommended to dilute this product with chilled Collagen Dilution Buffer, (catalog # 9003) provided with the ELISA grade collagen, to prevent the aggregation of collagen molecules. For coating, take aliquots and dilute it with the Collagen Dilution Buffer just before use. <i>Do not keep diluted solutions.</i> The optimum concentration of collagen to coat ELISA plates is 5 µg/mL generally, but may vary based on the type of plate used for different purposes such as coating cell culture plates.
STORAGE TEMPERATURE:	-20°C in the dark. This product is stable in acidic conditions at 4°C for several weeks and at -20°C for one year as supplied, but will gradually form polymeric collagen and degrade under neutral conditions.
STABILITY:	1 year
REFERENCES:	Seyer J. et al. Clin. Invest. 59: 241-248 (1977) Terato K. et al. Arthritis Rheumatism 33: 1493-1500 (1990) Terato K. et al. Clin. Immunol. Immunopathol. 79: 142-154 (1996)