

T-cell Proliferation Grade Human Type II Collagen, Lyophilized

Catalog # 2025

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION:	Highly purified heat-denatured type II collagen
APPLICATION:	Use as a stimulating antigen for T-cells from experimental animals and humans in <i>in vitro</i> culture systems. For example, use in T-cell proliferation assays and in establishing type II collagen specific T-cell lines. Type I, II, III, and even Type IV collagen share highly conserved amino acid sequences but have unique immunological features. Therefore, it is useful to use different types of collagen as a control for studying the epitope specificity of T-cells in collagen-induced arthritis (CIA) and other disease models.
QUANTITY:	0.5 mg
FORM:	Lyophilized powder
SOURCE:	Human sternal cartilage
MOLECULAR WEIGHT:	300 kDa
PURITY:	Purified by CM-cellulose chromatography >99% by SDS-PAGE, free of pepsin and proteoglycans
USAGE:	Soluble in acidic and neutral buffers, and in cell culture media. In order to use this product to assay T-cell proliferation responses, Chondrex, Inc. recommends dissolving this product in 0.05M phosphate buffered saline rather than cell culture media at 1 mg/ml before use.
STORAGE:	4°C in the dark, as supplied. Denatured collagen dissolved in acidic solution is also stable at -20°C for one year but will gradually degrade under neutral conditions.
STABILITY:	2 years
NOTES:	N/A
REFERENCES:	R. Trelstad. <i>et al. Biochemistry</i> 9 : 4993-4998 (1970) E. Miller. <i>Biochemistry</i> 10 : 1652-1659 (1971) K. Terato. <i>et al. Brit. J. Rheum.</i> 35 : 828-838 (1996)