

# T-Cell Proliferation Grade Bovine Type I Collagen

Catalog # 1052

*For Research Use Only - Not Human or Therapeutic Use*

DESCRIPTION:	Highly purified by CM-cellulose chromatography, heat denatured type I collagen
APPLICATION:	Use as a stimulation antigen for T-cells from experimental animals and humans in vitro culture system, for example, T-cell proliferation assay and establishing type I 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 and other disease models..
QUANTITY:	0.5 mg
FORM:	Lyophilized powder
SOURCE:	Bovine skin
MOLECULAR WEIGHT:	100 Kd
PURITY:	>95% by SDS-PAGE, free of pepsin and proteoglycans
SOLUBILITY:	Soluble in acidic and neutral buffers, and in cell culture medium. In order to use this product for assaying T-cell proliferation responses, it is recommended to dissolve this product in PBS rather than cell culture media at 1 mg/mL before use.
STORAGE TEMPERATURE:	4°C in the dark. This product is stable at 4°C for 2 years as supplied. Denatured collagen dissolved in acidic solution is also stable at -20°C for 1 year, but will gradually degrade under neutral conditions.
STABILITY:	2 years
REFERENCES:	Trelstad R. et al. Biochemistry 9: 4993-4998 (1970) Miller EJ. Biochemistry 10: 1652-1659 (1971) Terato K. et al. Brit. J. Rheum. 35: 828-838 (1996)

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