

## T-Cell Proliferation Grade Bovine Type II Collagen

Catalog # 2022

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

|                      |                                                                                                                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESCRIPTION:         | Highly purified by CM-cellulose chromatography, heat denatured type II 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 II collagen specific T-cell lines.                                              |
| QUANTITY:            | 0.5 mg                                                                                                                                                                                                                                               |
| FORM:                | Lyophilized powder                                                                                                                                                                                                                                   |
| SOURCE:              | Bovine articular cartilage                                                                                                                                                                                                                           |
| MOLECULAR WEIGHT:    | 300 Kd                                                                                                                                                                                                                                               |
| PURITY:              | >99% 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)<br>Miller EJ. Biochemistry 10: 1652-1659 (1971)<br>Terato K. et al. Brit. J. Rheum. 35: 828-838 (1996)                                                                                           |