

## ELISA Grade Mouse Type I Collagen

Catalog # 1006

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

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| DESCRIPTION:         | Highly purified type I collagen (treated with 3M guanidine, DEAE-cellulose and Na <sub>2</sub> HPO <sub>4</sub> )                                                                                                                                                                                                                                                                                                                                                                                                      |
| APPLICATION:         | Ideal as an ELISA antigen for detecting antibodies specific to mouse 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:              | Mouse skin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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)<br>Terato K. et al. Arthritis Rheumatism 33: 1493-1500 (1990)<br>Terato K. et al. Clin. Immunol. Immunopathol. 79: 142-154 (1996)                                                                                                                                                                                                                                                                                                                                     |