

Immunization Grade Bovine Type II Collagen, Solution

Catalog # 20022

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION: Highly purified type II collagen (treated with 3M guanidine, DEAE-cellulose and Na_2HPO_4)

APPLICATION: Can be used for various purposes, such as a standard for collagen analysis by SDS-gel, substrate for MMP-1, MMP-8 and MMP-13, and as an antigen for immunizing animals for the induction of collagen-induced arthritis (CIA) in certain species and strains of experimental animals.

QUANTITY: 5 mL

FORM: 2 mg/mL solution in 0.05M acetic acid

SOURCE: Bovine articular cartilage

MOLECULAR WEIGHT: 300 Kd

PURITY: >99% by SDS-PAGE, free of pepsin and proteoglycans

SOLUBILITY: The maximum concentration of type II collagen in acidic buffer is 4 mg/mL. In order to neutralize this product, add this collagen solution to a desired neutral buffer such as 2 10X Tris-NaCl (the final concentration of NaCl: 0.15-0.2M) or dialyze against 1X neutral buffer at 4°C.

Note 1: Although type II collagen does not form gel at a low concentration, it is recommended to keep collagen solution on ice.

STORAGE TEMPERATURE: -20°C in the dark

STABILITY: 2 years

REFERENCES: Trelstad R. et al. Biochemistry 9: 4993-4998 (1970)

Miller EJ. Biochemistry 10: 1652-1659 (1971)

Trentham DE. et al. J. Exp. Med. 146: 857-868 (1977)

Wooley PH. et al. J. Immunology 135: 2443-2451 (1985)