

Immunization Grade Porcine Type II Collagen, Solution

Catalog # 20032

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION: Highly purified type II collagen (treated with 3M guanidine, DEAE-cellulose, and Na2HPO4)

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: Porcine articular cartilage

MOLECULAR WEIGHT: 300 kDa

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

STORAGE: -20°C in the dark

STABILITY: 2 years

NOTES: 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 (NaCl

final concentration: 0.15-0.2M) or dialyze against 1X neutral buffer at 4°C.

NOTE: Although type II collagen does not form gel at low concentrations, Chondrex, Inc.

recommends keeping the collagen solution on ice.

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

E. Miller, *Biochemistry* **10**: 1652-1659 (1971)

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

P. Wooley, et al. J. Immunology **135**: 2443-2451 (1985)