Immunization Grade Human Type II Collagen, Solution

Catalog # 20052

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:	0.5 mL
FORM:	2 mg/mL solution in 0.05M acetic acid
SOURCE:	Human sternal 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)

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