Immunization Grade Bovine Type I Collagen

Catalog # 1062

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION:	Highly purified type I collagen
APPLICATION:	Use for immunization to generate antibodies and for general purposes in biochemistry and bioengineering.
QUANTITY:	10 mg
FORM:	Lyophilized powder
SOURCE:	Bovine skin
MOLECULAR WEIGHT:	300 kDa (consists of two α1(I) chains and one α2(I) chain)
PURITY:	>99% by SDS-PAGE
USAGE:	Type I collagen can be dissolved at 4 mg/ml in an acidic buffer such as 0.01-0.05M acetic acid, pH 3.0-3.3 or 0.15M citrate buffer, pH 3.6, mixed at 4°C overnight. Due to the rigid and long triple helical conformation of the collagen molecule, Chondrex, Inc. recommends keeping the collagen solution concentration below 4 mg/ml; concentrations greater than 4 mg/ml will be hard to handle due to the high viscosity. If high concentrations of collagen are required (preparing bio-materials such as collagen sheets, sponges, or beads for example), the collagen can be mixed with acidic buffer by mechanical stirring. In order to dissolve collagen in neutral buffer, dissolve the collagen in 0.01-0.05M acetic acid, add it into a 2X neutral buffer, and dilute with a 1X buffer. It is important to keep the concentration of NaCl between 0.15-0.2M. Always keep collagen solutions on ice. Do not leave a neutral collagen solution at room temperature, as the collagen can form a gel. Chondrex, Inc. offers Cat # 9075, Collagen Solubilizing Buffer (0.05M acetic acid), as a companion product for dissolving or diluting collagen.
STORAGE:	4°C in the dark for lyophilized form and at -20°C for solution form. Collagen will gradually degrade under neutral conditions.
STABILITY:	2 years
NOTES:	N/A
REFERENCES:	N/A

© 2024 Chondrex, Inc. All Rights Reserved, 1062 4.1

16928 Woodinville-Redmond Rd NE Suite B-101
Woodinville, WA 98072

Phone: 425.702.6365 or 888.246.6373
Fax: 425.882.3094

www.chondrex.com
support@chondrex.com