

Immunization Grade Mouse Type | Collagen

Catalog # 1066

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION: Highly purified mouse type I collagen

APPLICATION: Use for immunization to generate antibodies and for general purposes in biochemistry and

bioengineering

QUANTITY: 5 mg

FORM: Lyophilized powder

SOURCE: Mouse skin

MOLECULAR WEIGHT: 300 Kd (consists of two α 1(I) chains and one α 2(I) chain)

PURITY: >99% by SDS-PAGE

SOLUBILITY: Type I collagen can be dissolved at 4 mg/mL in acidic buffer such as 0.01-0.05M acetic acid, pH

3.0-3.3 or 0.15M citrate buffer, pH 3.6 by stirring at 4°C overnight. Due to the rigid and long triple helical conformation of the collagen molecule, the viscosity of collagen solution is extremely high at more than 4 mg/mL, and is hard to handle at higher concentrations. However, it can be mixed with acidic buffer by mechanical stirring at much higher concentrations for preparing bio-materials such as collagen sheets,

sponges or beads.

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 then dilute with a 1X buffer. It is important to keep the concentration of NaCl between 0.15-0.2M. Always keep collagen solution on ice. Do not leave the neutral solution of collagen

at room temperature, since collagen forms gel.

STORAGE TEMPERATURE: 4°C in the dark for lyophilized form and -20°C for solution

Collagen will gradually degrade under neutral conditions.

STABILITY: 2 years

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