

Immunization Grade Human Type III Collagen

Catalog # 1305

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION: Human type III collagen purified from pepsin-solubilized placenta by repeating salt precipitation.

APPLICATION: Use as an immunizing antigen to generate antibodies, an antigen to detect anti-type III collagen antibodies

in ELISA, or as a standard for gel analysis.

QUANTITY: 1 mg

FORM: Lyophilized powder

SOURCE: Human placenta

MOLECULAR WEIGHT: 300 Kd (consisting of three α 1(III) chains formed with inter-chain disulfide bonds)

PURITY: >90% by 6% SDS-PAGE with 4M Urea under reducing condition¹⁾, co-exsiting human type I collagen

less than 10%.

SOLUBILITY: Type III collagen can be dissolved at 4 mg/ml in acidic solution 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. To neutralize the solution, add 10X

neutral buffer containing 1.5M NaCl or dialyze the solution against a neutral buffer.

STORAGE TEMPERATURE: 4°C in the dark for lyophilized form and -20°C for solution. Collagen might be gradually degraded under

neutral pH conditions.

STABILITY: 2 years in lyophilized form

REFERENCES: 1. Separation of the alpha chains of type I and III collagens by SDS-polyacrylamide gel electrophoresis.

Hayashi T, Nagai Y. J Biochem. 1979 Aug;86 (2):453-9.

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