Immunization Grade Human Placenta Type V Collagen, Lyophilized

Catalog # 10951

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION:	Human type V collagen purified from pepsin-solubilized placenta by repeat salt precipitation. Placenta type V collagen consists of two subtypes of Type V collagen: [α1(V)]2α2(V) and α1(V)α2(V)α3(V).
APPLICATION:	Use as an immunizing antigen to generate antibodies, an antigen to detect anti-type V collagen antibodies in ELISA, or as a standard for gel analysis.
QUANTITY:	1 mg
FORM:	Lyophilized powder
SOURCE:	Human
MOLECULAR WEIGHT:	Intact placenta type V collagen: approximately 480 kDa. By 6% gel analysis, placenta type V collagen separates into three chains: α1(V), α3(V), and α2(V) (1840, 1737, and 1258 amino acid residues) from the top of the gel.
PURITY:	>90% by SDS-PAGE gel analysis
STORAGE:	4°C in the dark for lyophilized form and -20°C for solution form. Collagen may gradually degrade under neutral conditions
STABILITY:	2 years for lyophilized form
NOTES:	Type V collagen can be dissolved at 4 mg/ml in acidic solutions 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.
REFERENCES:	C. Niyibizi, P. Fietzek, M. van der Rest, Human placenta type V collagens. Evidence for the existence of an alpha 1(V) alpha 2(V) alpha 3(V) collagen molecule. *J Biol Chem* **259**, 14170-4 (1984). M. Abedin, S. Ayad, J. Weiss, Type V collagen: the presence of appreciable amounts of alpha 3(V) chain in uterus. *Biochem Biophys Res Commun* **102**, 1237-45 (1981). Sato, K *et al*. Simple and Rapid Chromatographic Purification of Type V Collagen from a Pepsin Digest of Porcine Intestinal Connective Tissue, an Unmanageable Starting Material for Conventional Column Chromatography. *Journal of Chromatography* **790**:277-283 (2003).

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