# Immunization Grade Bovine Amnion Type V Collagen, Lyophilized

Catalog # 1092

*For Research Use Only - Not Human or Therapeutic Use*

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| DESCRIPTION: | Bovine type V collagen purified from pepsin-solubilized amnion by repeat salt precipitation. Amnion type V collagen consists of two α1 chains and one α2 chain, [α1(V)]2 and α2(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: | Bovine |
| MOLECULAR WEIGHT: | Intact amnion type V collagen: approximately 540 kDa. By 6% gel analysis, amnion type V collagen separates into two chains: α1(V) and α2(V) (1840 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.<br><br>Chondrex, Inc. offers Cat # 9075, Collagen Solubilizing Buffer (0.05M acetic acid), as a companion product for dissolving or diluting collagen. |
| 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).<br><br>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).<br><br>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). |

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