

Immunization Grade Bovine Amnion Type V Collagen, Lyophilized

Catalog # 1092

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION: Bovine type V collagen purified from pepsin-solubilized amnion by repeat salt precipitation.

Amnion type V collagen consists of two $\alpha 1$ chains and one $\alpha 2$ chain, $[\alpha 1(V)]2$ and $\alpha 2(V)$.

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: $\alpha 1(V)$ and $\alpha 2(V)$ (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.

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

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3(V) chain in uterus. Biochem Biophys Res Commun 102, 1237-45 (1981).

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