

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 repeating salt precipitation. Placenta

type V collagen consisits of two subtypes of type V collagen, $[\alpha 1(V)]_{\alpha} 2(V)$ and $\alpha 1(V) \alpha 2(V) \alpha 3(V)$.

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 Kd. By 6% gel analysis, placenta type V collagen

is separated into three chains: $\alpha 1(V)$, $\alpha 3(V)$, and $\alpha 2(V)$ (1840, 1737, and 1258 amino acid residues)

from the top of the gel.

PURITY: >90% by SDS gel analysis

SOLUBILITY: Type V 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 conditions.

STABILITY: 2 years in lyophilized form

REFERENCES: Christopher Niyibizi et al. Human Placenta Type V Collagens. Journal of Biological Chemistry. Vol.

259, No.22:14170-14174 (1984)

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