



Recombinant Protein Technical Manual

Recombinant Human COL9A1 Protein (His Tag)

RPES2217

Product Data:

Product SKU: RPES2217

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P20849-3

Protein Information:

Molecular Mass: 33.8 kDa

AP Molecular Mass: 38-50 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: DJ149L1.1.2;EDM6;MED;STL4;Collagen alpha(IX) chain;DJ149L1.1.2

Immunogen Information:

Sequence: Ala24-Pro328

Background:

COL9A1, which is short for Collagen alpha(IX) chain, is a 921 aa. protein. It is a secreted protein, and exists in extracellular space and extracellular matrix. This protein is a heterotrimer of an alpha 1(IX), an alpha 2(IX) and an alpha 3(IX) chain. Each subunit is composed of three triple-helical domains interspersed with non-collagenous domains. The globular domain at the N-terminus of type IX collagen molecules represents the NC4 domain which may participate in electrostatic interactions with polyanionic glycosaminoglycans in cartilage. It is a structural component of hyaline cartilage and vitreous of the eye.