Recombinant Human COL9A1 Protein (His Tag)

Catalog Number: PKSH033337

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

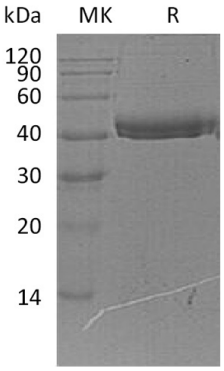
Description

Species	Human
Source	HEK293 Cells-derived Human COL9A1 protein Ala24-Pro328, with an C-terminal His
Calculated MW	33.8 kDa
Observed MW	38-50 kDa
Accession	P20849-3
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

COL9A1; which is short for Collagen alpha-1(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 ia a structural component of hyaline cartilage and vitreous of the eye.

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