# Recombinant Human COL8A1 Protein (His Tag)

Catalog Number: PKSH032267



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

## **Description**

Synonyms Collagen Alpha-1(VIII) Chain; Endothelial Collagen; Vastatin; COL8A1; C3orf7

Species Human

**Expression Host** HEK293 Cells **Sequence** Gly28-Met744

Accession P27658

Calculated Molecular Weight 71.6 kDa

Observed molecular weight 58&85 kDa

Tag C-His

## **Properties**

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

**Endotoxin**  $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$ 

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°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, pH 7.2.

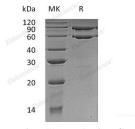
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed man

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

#### Data



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## **Background**

Collagen alpha-1(VIII) chain, also known as endothelial collagen, C3orf7 and COL8A1, can be cleaved into vastatin chain. COL8A1 is a short chain collagen and a major component of the basement membrane of the corneal endothelium. COL8A1 forms homotrimers, or heterotrimers in association with alpha 2(VIII) type collagens. Four homotrimers can form a tetrhedron stabilized by central interacting C-terminal NC1 trimers. COL8A1 contains one C1q domain and is primarily expressed in the subendothelium of large blood vessels. The expression level can be up-regulated during vascular injury, in atherosclerosis and in diabetes. COL8A1 may have a role in the maintenance of vessel wall integrity and structure, in particular in atherogenesis.

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