

COL8A1 Protein, Human, Recombinant (His)

General Information

Synonyms:	Vastatin;Endothelial Collagen;Collagen Alpha-1(VIII) Chain;Collagen α -1(VIII) Chain;COL8A1; C3orf7
Protein Construction:	Gly28-Met744
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P27658
Molecular Weight:	58&85 KDa (reducing condition)
AA Sequence:	Gly28-Met744

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 20 mM PB, 150 mM NaCl, pH 7.2.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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 tetrahedron stabilized by central interacting C-terminal NC1 trimers. COL8A1 contains one

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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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