Recombinant Human COL8A1 Protein (His Tag)

Catalog No. PKSH032267

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

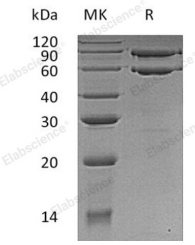
Description

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
Bioactivity	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 7.2. 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

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.

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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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