

Recombinant Human COL8A1

Catalog No: C940

Description	Recombinant Human Collagen alpha-1(VIII) Chain is produced by our Mammalian expression system and the target gene encoding Gly28-Met744 is expressed with a 6His tag at the C-terminus.	
Source	Human Cells	
Alternative name	Collagen Alpha-1(VIII) Chain; Endothelial Collagen; Vastatin; COL8A1; C3orf7	
Accession No.	P27658	
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, PH7.2.	
Quality Control	Purity:	Greater than 95% as determined by reducing SDS-PAGE.
	Endotoxin:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.	
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
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 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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