

## 32-8410: Recombinant Human Collagen $\alpha$ -1(IX) Chain/COL9A1 (C-6His)

**Gene :** COL9A1

**Gene ID :** 1297

**Uniprot ID :** P20849

### Description

Source: Human Cells.

MW :33.8kD.

Recombinant Human COL9A1 is produced by our Mammalian expression system and the target gene encoding Ala24-Pro328 is expressed with a 6His tag at the C-terminus. 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 is a structural component of hyaline cartilage and vitreous of the eye.

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g

**Content :** Lyophilized from a 0.2  $\mu$ m filtered solution of 20mM PB, 150mM NaCl, pH7.4.

**Storage condition :** 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.

**Amino Acid :** AVKRRPRFPVNSNSNGGNELCPIRIGQDDLPGFDLISQFQVDKAASRRAIQRVVGSATLQVAYKL  
GNNVDFRIPTRNLYPSGLPEEYSFLTTFRMTGSTLKKNNWNIWQIQDSSGKEQVGKINGQTQSVVF  
SYKGLDGSLSQTAAFSNLSSLFDSQWHKIMIGVERSSATLFVDCNRIESLPKPRGPIDIDGFAVLGKL  
ADNPQVSVPFELQWMLIHCDPLRPRRETCHelpARITPSQTTDERGPPGEQGP GPPGPPGPPGVPGI  
DGIDGDRGPKGPPGPPGPAGEPGKPGAPGKPGTPGADTSPVDHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.