

## 32-8399: Recombinant Mouse Collagen a-1(III) Chain/COL3A1 (C-6His)

**Gene :** Col3a1  
**Gene ID :** 12825  
**Uniprot ID :** P08121

### Description

Source: Human Cells.  
MW :96.6kD.

Recombinant Mouse COL3A1 is produced by our Mammalian expression system and the target gene encoding Gln155-Gly1219 is expressed with a 6His tag at the C-terminus. Collagen alpha-1(III) chain(Col3a1) is a secreted protein and belongs to the fibrillar collagen family. It contains 1 fibrillar collagen NC1 domain and 1 VWFC domain. Collagen alpha-1(III) chain is a fibrillar collagen that is found in extensible connective tissues such as skin, lung, and the vascular system, frequently in association with type I collagen. The COL3A1 gene produces the components of type III collagen, called pro-alpha1(III) chains. Three copies of this chain combine to make a molecule of type III procollagen. These triple-stranded, rope-like procollagen molecules must be processed by enzymes outside the cell to remove extra protein segments from their ends. Once these molecules are processed, the collagen molecules arrange themselves into long, thin fibrils. Within these fibrils, the individual collagen molecules are cross-linked to one another. These cross-links result in the formation of very strong mature type III collagen fibrils, which are found in the spaces around cells.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM HAc-NaAc, 150mM NaCl, pH4.5.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** QFDSYDVKSGVGGMGGYPGPAGPPGPPGSSGHPGSPSGYQGPPGEPGQAGPAGPPGPPGALGPAGP  
AGKDGESGRPRGERGLPGPPGIKGPAGMPGFPMKGHRGFDGRNGEKGETGAPGLKGENGLPGDNGAP  
GPMGPRGAPGERGRPLGAAGARGNDGARGSDGQPGPPPGTAGFPGSPGAKGEVGPAGSPGSNGSPG  
QRGEPGPQGHAGAQQPPGPPGNNNGSPGGKGEMGPAGIPGAPGLIGARGPPGPAGTNGIPGTRGPPSGEPGKN  
GAKGEPGARGERGEAGSPGIPGPKGEDGKDGSPGEPGANGLPGAAGERGPSGFRGPAGPNGIPGEKGPGER  
GGPGPAGPRGVAGEPRDGTGGPGIRGMPGSPGGPGNDGKPGPPGSQGESGRPGPPGPSGPRGQPGVMG  
FPGPKGNDGAPGKNGERGGPGGPLPGPAGKNGETGPQGPPTGPAGDKGDSGPPGPQGLQIPGTGGPP  
GENGKPGEPGPKGEVGAPGAPGGKGDGAPGERGPPGTAGIPGARGGAGPPGEGGKGPAGPPGPPGASGS  
PGLQGMPPGERGGPSGPKGEKGEPPGAGADGVPGKDGPAGIPGPPGPAGQPGDKGEGGSPGLPGIAG  
PRGGPGERGEHPPGPAGFPAGQNGEPGAKGERGAPGEKGEPPGPAGPTGSSGPAGPPGPQGVKGER  
GSPGGPGTAGFPGGRLPGPPGNNNGNPGGPSGAPGKDGPAGNSGSPGNPGIAGPKGDAGQPGKGP  
PGAQGGPSGPLGIAGLTGARGLAGPPGMGPRGSPGPQGKGESGKPGASGHNGERGGPGQGLPGQPPT  
AGEPRDGNPGSDGQPRDGSPPGKGDGSPGAPGAPGHPGPPGVPVPSGKSGDRGETGPAGPSGAP  
GPAGARGAPGPQPRGDKGETGERGSNGIKGHRGFPGNPGPPGSPGAAGHQGAIGSPGPAGPRGPVPHGP  
PGKDGTSGHPPGPIGPPGPRGNRGERGSESGHPGQPGPPGPPGAPGCCGGAAAIAGVGGKEKSGGFSPPY  
GVDHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.