

Active Recombinant Mouse Collagen, Type XIII, Alpha 1, His-tagged

Cat. No. Col13a1-465M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Col13a1 protein was expressed in Murine myeloma cell line with a N-terminal 6-His tag. Glu107-Gln565.
Species	Mouse
Source	Mammalian Cells
Protein Length	107-565 a.a.
Description	Col13a1 is an 85 kDa/95 kDa protein in the type 2 transmembrane collagen family. Mature mouse Col13a1 consists of a 40 amino acid (aa) cytoplasmic domain, a 19 aa transmembrane segment, and a 692 aa extracellular domain (ECD). The ECD contains three collagenous regions separated by shorter noncollagenous regions. Within comparable regions of the ECD, mouse Col13a1 shares 85% and 88% aa sequence identity with human and rat Col13a1, respectively.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	His
Molecular Weight	46.0 kDa
Activity	Measured by the ability of the immobilized protein to support the adhesion of A431 human epidermoid carcinoma cells. When 1 x 10 ⁵ cells per well are added

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formCol13a1 coated plate (2 µg/mL, 100 µL/well), approximately 45%-75% will adhere after 1 hour at 37°C. Optimal dilutions should be determined by each laboratory for each application.

Endotoxin Level <1.0 EU per 1 µg of the protein by the LAL method.

Purity >80%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Reconstitution Reconstitute at 300 µg/mL in PBS

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name Col13a1 collagen, type XIII, alpha 1 [*Mus musculus*]

Official Symbol Col13a1

Synonyms Col13a1; collagen, type XIII, alpha 1; collagen alpha-1(XIII) chain; type XIII collagen; procollagen, type XIII, alpha 1

Gene ID 12817

mRNA Refseq NM_007731

Protein Refseq NP_031757

UniProt ID Q9R1N9

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Chromosome Location	10 B4; 10 31.5 cM
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Function	heparin binding
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