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

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

SPECIFICATION

Product Overview	Recombinant Mouse Col13a1protein was expressed in Murine myeloma cell line with a N-terminal 6-His tag.Glu107-Gln565.
Species	Mouse
Source	Mammalian Cells
ProteinLength	107-565 a.a.
Description	Col13a1 is an 85 kDa95 kDa protein in the type 2 transmembrane collagen family. Mature mouse Col13a1consists 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 regionsseparated by shorter noncollagenous regions. Within comparable regions of theECD, mouse Col13a1 shares 85% and 88% aa sequence identity with human and ratCol13a1, respectively.
Form	Lyophilized from a 0.2μm filtered solution in PBS.
N-terminalSequence	His
Molecular Weight	46.0 kDa
Activity	Measuredby the ability of the immobilized protein to support the adhesion of A431 humanepidermoid carcinoma cells. When 1 x 105 cells per well are added

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Email: info@creative-biomart.com Fax: 1-631-938-8127
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	tormCol13a1 coated plate (2 μg/mL, 100 μL/well), approximately 45%-75% will adhereafter 1 hour at 37°C. Optimal dilutions should be determined by each laboratoryfor each application.
Endotoxin Level	<1.0 EUper 1 μg of the protein by the LAL method.
Purity	>80%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstituteat 300 μg/mL in PBS
Storage	Use a manualdefrost freezer and avoid repeated freezethaw 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
Function	heparin binding

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