

Recombinant Cattle COL4A1 Protein, His-tagged

Cat. No. COL4A1-819C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle COL4A1 Protein (Gly1445-Thr1669) with His tag was expressed in E. coli.
Species	Cattle
Source	E.coli
ProteinLength	Gly1445-Thr1669
Description	This gene encodes the alpha-1 subunit of the type IV collagens, an essential component of basement membranes. The encoded protein forms a triple helical heterotrimer comprised of two alpha-1 and one alpha-2 subunits that assembles into a type IV collagen network. This gene is located adjacent to the gene encoding alpha-2 subunit. Mice lacking both the alpha-1 and alpha-2 subunits of collagen IV die in utero due to structural deficiencies in the basement membranes and certain mutations in this gene cause perinatal cerebral hemorrhage and porencephaly. Alternative splicing of this gene results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.6 kDa; Accurate Molecular Mass: 29 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	COL4A1 collagen type IV alpha 1 chain [Bos taurus (cattle)]
Official Symbol	COL4A1
Synonyms	COL4A1; collagen type IV alpha 1 chain; collagen alpha-1(IV) chain; collagen, type IV, alpha 1
Gene ID	282191
mRNA Refseq	NM_001166511
Protein Refseq	NP_001159983

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