

RPES8514

Product Information

Product SKU:	RPES8514	Expression Host:	Mammalian	Size:	20µg
Tag:	C-His	Reactivity:	Porcine	Accession:	A0A286ZWS8

Additional Information

Calculated MW:	25.7 kDa	Observed MW:	35 kDa
Sequence:	Ala1183-Leu1417		

Protein Information

Background:	<p>COL2A1 is the alpha-1 chain of type II collagen which is a fibrillar collagen found in cartilage and the vitreous humor of the eye. Mutations in this protein are associated with an achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium binding protein that is the C-propeptide of this collagen molecule, are also associated with an chondrodysplasia. There are two transcripts identified for this gene. Type II collagen is specific for cartilaginous tissues. Thus COL2A1 is essential for the normal embryonic development of the skeleton, for linear growth and for the ability of cartilage to resist compressive forces. The regulation of COL2A1, likely results from a balance of both positive and negative proteins. The inhibition of COL2A1 transcription following treatment of chick sternal chondrocytes with an growth factors was accompanied by increased EF1 expression. Overexpression of EF1 in differentiated chondrocytes resulted in decreased expression of a reporter construct containing a collagen II promoter/enhancer insert.</p>
Synonyms:	<p>Alpha 1 type II collagen, Alpha-1 type II collagen, AOM, Cartilage collagen, Chondrocalcin, CO2A1, COL11A3, Col2a1, Collagen II alpha 1 polypeptide, SEDC</p>
Endotoxin:	<p>< 1.0 EU/mg of the protein as determined by the LAL method</p>
Formulation:	<p>Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.</p>

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Purity: > 90% as determined by reducing SDS-PAGE.

Bio-Activity: Not validated for activity

Storage: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.