

Native Chicken COL2A1 Protein

Cat. No. COL2A1-16C Lot. No. (See product label)

SPECIFICATION

Product Overview	Highest quality (>99%) Collagen type II (CII) protein, purified from chicken sternum, for the induction of arthritis in the Collagen-Induced Arthritis (CIA) model. Soluble 10 mg (2 mg/mL).
Species	Chicken
Source	Chick sternum
Description	<p>Type II collagen (CII) is a fibrillar collagen that is primarily located in cartilage tissue. The major molecular form of collagen in cartilage is type II collagen. Type II collagen is also located in the vitreous humor of the eye, the inner ear, the nose, and the intervertebral discs of the spine. The function of type II collagen is to provide tensile strength and give cartilage the ability to resist shearing forces. Mutations of the COL2A1 gene affect the synthesis of type II collagen and cause chondrodysplasias. This is characterized by abnormal cartilage that leads to bone and joint deformities. The degradation of collagen type II is an early indicator of osteoarthritis.</p> <p>Type II Collagen and Adjuvant Susceptibility to CIA is linked to MHC class II molecules and is dependent upon the species of type II collagen used for immunization. Various species of highly purified Type II Collagen are supplied lyophilized and in solution for use in the induction of arthritis in vivo.</p>
Form	2 mg/mL in dilute acetic acid
Molecular Mass	300 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 99% as determined by SDS-PAGE and visualized by Coomassie blue staining.
Applications	Used for the induction of collagen-induced arthritis (CIA) in experimental animals.
Storage	Collagen dissolved in acetic acid is stable at 4 centigrade for 1 month. May be stored in dark at -20 centigrade for long term storage but will gradually degrade under neutral conditions.
Concentration	10 mg

GENE INFORMATION

Official Symbol	COL2A1
Synonyms	COL2A1; pro-alpha 1(II) chain; Achondrogenesis; Hypochondrogenesis; Spondyloepiphyseal dysplasia; Osteoarthritis (OA); Collagen Induced Arthritis (CIA); Collagen Type II

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