Immunization Grade Salmon Type II Collagen, Lyophilized

Catalog # 20091

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION:	Highly purified type II collagen (treated with 3M guanidine, DEAE-cellulose, and Na2HPO4)
APPLICATION:	Can be used for various purposes, such as a standard for collagen analysis by SDS-gel, substrate for MMP-1, MMP-8, and MMP-13, and as an antigen for immunizing animals.
QUANTITY:	5 mg
FORM:	Lyophilized powder
SOURCE:	Salmon nasal cartilage
MOLECULAR WEIGHT:	300 kDa
PURITY:	>95% by SDS-PAGE, free of pepsin and proteoglycans
STORAGE:	4°C in the dark
STABILITY:	2 years
NOTES:	Soluble in acidic buffer (maximum 2 mg/ml), but difficult to dissolve in neutral buffer. In order to dissolve this product in a neutral buffer, first dissolve collagen in 0.01M or 0.05M acetic acid at 1-2 mg/ml and then add this collagen solution to the desired neutral buffer such as 2-10X Tris-NaCl (NaCl final concentration: 0.15-0.2M) or dialyze against 1X neutral buffer at 4°C. Chondrex, Inc. offers Cat # 9075, Collagen Solubilizing Buffer (0.05M acetic acid), as a companion product for dissolving or diluting collagen. NOTE 1: To avoid fibril formation under neutral conditions, keep solution on ice. NOTE 2: Denaturation temperature is 32 - 35°C. NOTE 3: The physicochemical property of type II collagen differs from type I collagen and type II collagen dissolved in a neutral buffer does not form a stable gel incubating at 37°C. In order to prepare a type II collagen gel, additional components such as type I collagen or other substances may be required.
REFERENCES:	Q. Liang, L. Wang, W. Sun, Z. Wang, J. Xu, H. Ma, Isolation and characterization of collagen from the cartilage of Amur sturgeon (Acipenser schrenckii). Process Biochem. 49, 318–323 (2014).

16928 Woodinville-Redmond Rd NE Suite B-101
Woodinville, WA 98072

Phone: 425.702.6365 or 888.246.6373
Fax: 425.882.3094

www.chondrex.com
support@chondrex.com