

## ELISA Grade Porcine Type III Collagen

Catalog # 1093

*For Research Use Only - Not Human or Therapeutic Use*

DESCRIPTION:	Porcine type III collagen purified from pepsin-solubilized skin by repeating salt precipitation, DEAE-cellulose and Na <sub>2</sub> PO <sub>4</sub> precipitation.
APPLICATION:	Ideal as an ELISA antigen for detecting antibodies specific to porcine type III collagen in sera from experimental animals and humans, such as collagen-induced arthritis (CIA) models and patients with rheumatoid arthritis or other diseases, as well as normal controls to study the diversity of anti-collagen antibodies.
QUANTITY:	1 ml, 0.5 mg/ml
FORM:	0.5 mg/ml solution in 0.05M acetic acid
SOURCE:	Porcine skin
MOLECULAR WEIGHT:	300 Kd (consists of three $\alpha$ 1(III) chains)
PURITY:	>90% by 6% SDS-PAGE with 6M urea under reducing conditions, contaminated with porcine type I collagen by less than 10%
USAGE:	It is recommended to dilute this product with cold Collagen Dilution Buffer, (catalog # 9003) provided with the ELISA grade collagen, to prevent the aggregation of collagen molecules. For plate coating, take aliquots and dilute it with the Collagen Dilution Buffer just before use. Do not store diluted solutions. The optimum concentration of collagen to coat ELISA plates is generally 5 $\mu$ g/ml, but may vary based on the type of plate used for different purposes such as coating cell culture plates.
STORAGE TEMPERATURE:	-20°C in the dark. This product is stable in acidic conditions at 4°C for several weeks and at -20°C for one year as supplied, but will gradually form polymeric collagen and degrade under neutral conditions..
STABILITY:	1 year