

Bovine Type II Collagen, Lyophilized

Catalog Number 804001-Lyo

For research use only

DESCRIPTION	Highly purified type II collagen
APPLICATION	Used for the induction of collagen-induced arthritis (CIA) in experimental animals.
FORM	Lyophilized, 10 mg/vial
SOURCE	Fetal bovine articular cartilage
MOLECULAR WEIGHT	300 kDa
PURITY	> 99%, as determined by SDS-PAGE and visualized by Coomassie blue staining.
PURIFICATION	Differential salt precipitation
RECONSTITUTION	Reconstitute to 4 mg/mL with dilute acetic acid (1-100 mM). Dissolve using a micro stir-flea over a 24 hour period. Note: ensure that the stir plate does not cause vial to warm.
STORAGE	Collagen dissolved in acetic acid is stable at 4 °C for 1 month. May be stored in dark at -20 °C for long term storage but will gradually degrade under neutral conditions.
TECHNICAL HINTS	<ul style="list-style-type: none"> • To ensure collagen retains its native structure, always use pre-chilled pipette tips, glassware, and diluent. • Keep collagen on ice during use. • When preparing emulsion for CIA, ensure that emulsion is thick to give best rate of incidence. • Use high quality CFA (Complete Freund's Adjuvant) at a concentration up to 4mg/mL.

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