

Note that this data sheet is not lot-specific. Please consult the vial label and the certificate of analysis for information on specific lots.

Collagen Type II Human Joint Cartilage

Catalogue Number: 30 410 434

Package Size: 1 mg lyophilized

1. Enzyme characteristics

1.1 Molecular form: Human triple helical collagen type II is purified from human joint cartilage using Guanidin-HCl extraction, pepsin digestion, salt precipitation, ion exchange chromatography and gel filtration.

Protein concentration was determined with bicinchoninic acid reagent (BCA, Pierce).

1.2 Stability and storage: Human triple helical collagen type II is a lyophilized white, hygroscopic powder. The extract can be stored for more than 1 year at 4-8°C.

2. Applications

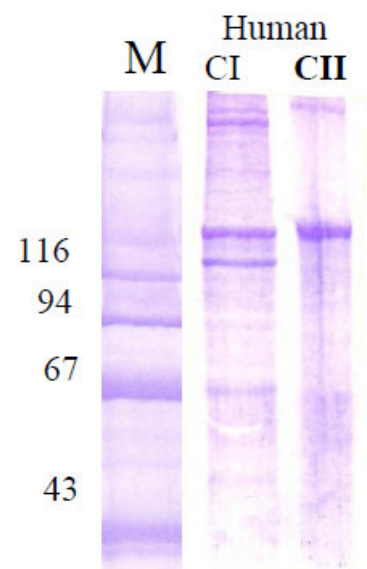
Human triple helical collagen type II can be used as a control and for ELISA.

3. Additional information

Lyophilized Collagen II should be solubilized slowly in 10 mM acetic acid (0.2% w/v) and adjusted to neutral pH by adding 2/5 vol. 2.5x Carbonat buffer (0.25 M NaHCO₃, 1.25 M NaCl, 0.1% NaN₃). Avoid freeze and thaw cycles. Fibril-forming molecules with the molecular formular: $\alpha 1(\text{II})_3$.

4. References

1. Boissier, M.C. et al. (1990) Arthritis & Rheumatism, Vol. 33, No.1, 1-8
2. Ricard-Blum, S. et al., Journal of Cellular Biochemistry (1985) Vol. 27, 347-358
3. Niyibizi, C. et al. (1984) J. Biol. Chem. 259, 14170
4. Sieper et al. (1996), Arthritis and Rheumatism 39, 41



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