

Code No. 54001

Neosilk® Human-Type Collagen I

Volume : 100mg

- Description** : Neosilk® Human-Type Collagen I is a recombinant protein produced by expressing a full-length triple-helical domain of human type I collagen $\alpha 1$ (I) chain in transgenic silkworms (ref.1, 2). Since Neosilk® Human-Type Collagen I is purified from cocoons of transgenic silkworms, the collagen contains no animal-derived materials. This product is completely free from artificial preservatives.
- Source** : Silkworm cocoons
- Purification** : Extracted from cocoons and purified by salt-precipitation.
- Form** : Lyophilized product in deionized water. No additives.
- How to use** : 100 mL of purified water with or without preservatives is added to the product, the resultant solution contains 0.1% (w/v) of Neosilk® Human-Type Collagen I.
- Storage** : Lyophilized product, 2~8 °C
- Shelf Life** : 5 years stored at 2~8 °C for unopened lyophilized product upon shipment from the manufacturer. Should be immediately used after reconstitution (not re-use).
- Reference** : 1. Adachi T, Wang X, Murata M, Obara M, Akutsu H, Machida M, Umezawa A, Tomita M. Production of a non-triple helical collagen α chain in transgenic silkworms and its evaluation as a gelatin substitute for cell culture. *Biotechnol. Bioeng.* 106, 860-870 (2010)
2. Kitajima T, Obuse S, Adachi T, Tomita M, Ito Y. Recombinant human gelatin substitute with photoreactive properties for cell culture and tissue engineering. *Biotechnol. Bioeng.* 108, 2468-2476 (2011)
- Country of Origin** : Japan

For Non-Clinical Research Use Only