

Fact Sheet

State of the art ingredients \cdot fast friendly service

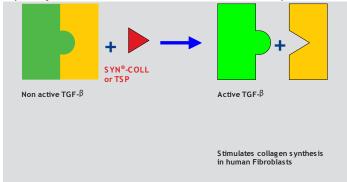
SYN_®-COLL

SYN -COLL is a patented innovative approach that is based on many years of experience in synthesizing peptides for the pharmaceutical industry.

SYN •-COLL is a small peptide with a unique sequence to mimic the human body's own mechanism to produce collagen via TGF-β. The product is offered unpreserved, as a excellent collagen building capacity compared to the ready to use water soluble solution.

Properties:

Collagen represents the main component of the ECM (Extra Cellular Matrix) of the dermal connective tissue. Thrombospondin I (TSP) is a multifunctional protein that activates the latent but biologically inactive form of TGF-B (Tissue Growth Factor). TGF- β is known as the key element in the synthesis of collagen and binds to a particular sequence in the TSP molecule. This sequence is known as ARG-PHE-LYS, being similar to this SYN_®-COLL also has the capacity to bind and therefore activate TGF-B.



Source: J.E. Murphy-Ullrich, M. Poczatek, Cytokine & Growth Factor Reviews, 11, 2000, 59-69.

Function:

- SYN -COLL stimulates Collagen synthesis
- SYN_®-COLL actively removes any type of wrinkle
- SYN -COLL has in addition skin firming and moisturizing properties
- SYN -COLL has been clinically proven to be safe and effective.

Cosmetic application:

- SYN •-COLL is a deep penetrating, bio-active ingredient developed to remove any type of wrinkle and to repair existing stretch marks.
- As a breakthrough in wrinkle treatment SYN •-COLL can be Ra: Average roughness used in any type of anti-aging product for every aspect of Rz: Mean of 5 consequent regions wrinkle reduction.

Suggested concentration:

1-3% SYN -COLL

Formulation:

SYN -COLL is a clear aqueous solution that can easily be incorporated into the aqueous phase of a formulation.

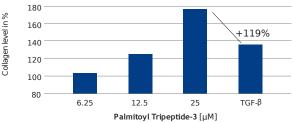
INCI name:

Palmitoyl Tripeptide-5, Glycerine

Efficacy tests:

In vitro testing in human fibroblasts, SYN .- COLL has shown positive standard TGF-β (0.4 nM).

COLLAGEN LEVELS IN HUMAN FIBROBLASTS



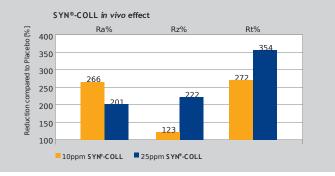
INCREASE OF COLLAGEN synthesis by **119%** compared to the positive standard.

In vivo test:

To prove the anti-wrinkle effect of SYN_®-COLL, a study on 60 healthy volunteers has been performed. Various concentrations of SYN_®-COLL (1% and 2.5% respectively) have been applied twice daily for 84 days.



Effect on wrinkles is a 350% improvement compared to placebo



Rt: Maximum difference

SYN o-COLL can be considered an effective alternative to collagen injections.