

ACTIMP 1.9.3®

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> INCI NAME: Hydrolyzed Lupine Protein

> FUNCTIONS

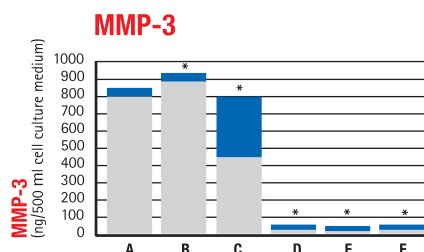
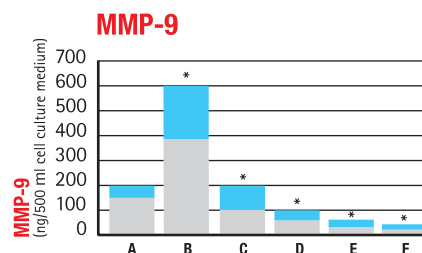
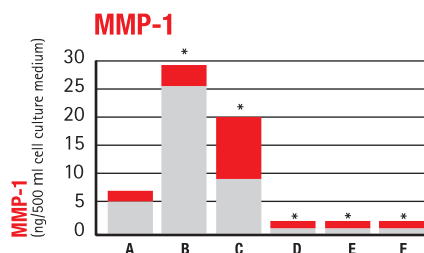
The Laboratoires Expanscience have developed ACTIMP 1.9.3®, an inhibitor of MMP such as collagenase and gelatinase. Recent experimental findings have stressed the role of certain MMP (Matrix Metalloproteinases) in the breakdown of proteins in the extracellular matrix exposed to low or high dose solar irradiation or to inflammation. An excess of these enzymes (collagenase, gelatinase, stromelysine...) upsets the balance between destruction and replacement of collagens, elastins, fibronectin, etc., resulting in major structural disorders or accelerated tissue aging. Inhibition of these proteolytic enzymes, specific or non-specific, thus is an important factor to be taken into account in the design and development of topical agents:

- in the prevention of chronic photoaging (protective daycare cream) or acute prevention (sunbathing), sunscreen products,
- in the prevention or cosmetic care of certain skin inflammations or irritations.

ORIGIN

ACTIMP 1.9.3® contains low molecular weight purified White Lupin peptides obtained from lipid free seeds using a biotechnological process which eliminates the polysaccharides which may cause the secondary reactions of glycation. This process, which includes unit steps of dissolution of vegetable proteins, enzymatic hydrolysis and ultrafiltrations, produces peptides containing 5 or 6 amino acid in average.

> ÉVALUATION



ACTIMP 1.9.3® decreases MMPs production in human irradiated fibroblasts (UVA 10 J/cm²)

- A : CONTROLE CELLS
- B : UVA-IRRADIATED CELLS
- C : RETINOÏC ACID (10 mM) + EGF (10 ng/ml)
- D : ACTIMP 1.9.3® (0,5% p/v)
- E : ACTIMP 1.9.3® (1% p/v)
- F : ACTIMP 1.9.3® (2% p/v)

> ANALYTICAL COMPOSITION

CHARACTERS — A clear, light yellow to orange-yellow solution, with a characteristic odour
pH 6.5 - 7.5

COLORATION Absorbance at 420nm ≤ 1.0
Absorbance at 550nm ≤ 0.1

DRY EXTRACT 9.5 to 11.5% (w/w)

COMPOSITION (AS DRIED SUBSTANCE):

- ALPHA-AMINO NITROGEN CONTENT 18.0 to 24.0g / 100g
- TOTAL SUGARS ≤ 4.0%
- PHENONIP CONTENT 0.45 to 0.55g / 100g

STORAGE: AT 2 TO 8°C, IN A AIRTIGHT CONTAINER, PROTECTED FROM LIGHT.

ACTIMP 1.9.3® is a patented active ingredient. ACTIMP 1.9.3®'s peptides are the only White Lupin peptides to claim a patented activity concerning the inhibition of MMP. ACTIMP 1.9.3® is strictly and only dedicated to cosmetics application.

EXPANSCIENCE®
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