

# WK Pep<sup>®</sup> Repairin



WKPep®Repairin consists of a unique set of amino acids that regulates the level of collagen, reduces the fine lines and improves the skin appearance. In addition, it also has benefit on autophagy by up-regulating autophagy-related proteins and Nrf2 signaling pathway-related proteins, improving the cellular autophagy, cleaning up harmful material inside the cells and rejuvenating the cell.

## PRODUCT DESCRIPTION

<b>INCI Name</b>	Hexapeptide-11, Water, Glycerin
<b>CAS Number</b>	n/a, 7732-18-5, 56-81-5
<b>Appearance</b>	Viscous liquid, colorless to yellowish
<b>Peptide content</b>	≥900 ppm
<b>PH</b>	4.0~6.0
<b>Recommended dosage</b>	0.5-3%
<b>Compatibility</b>	Avoid the use of compounds containing aldehyde and ketones, metal ions, strong acids, strong bases, active enzymes.

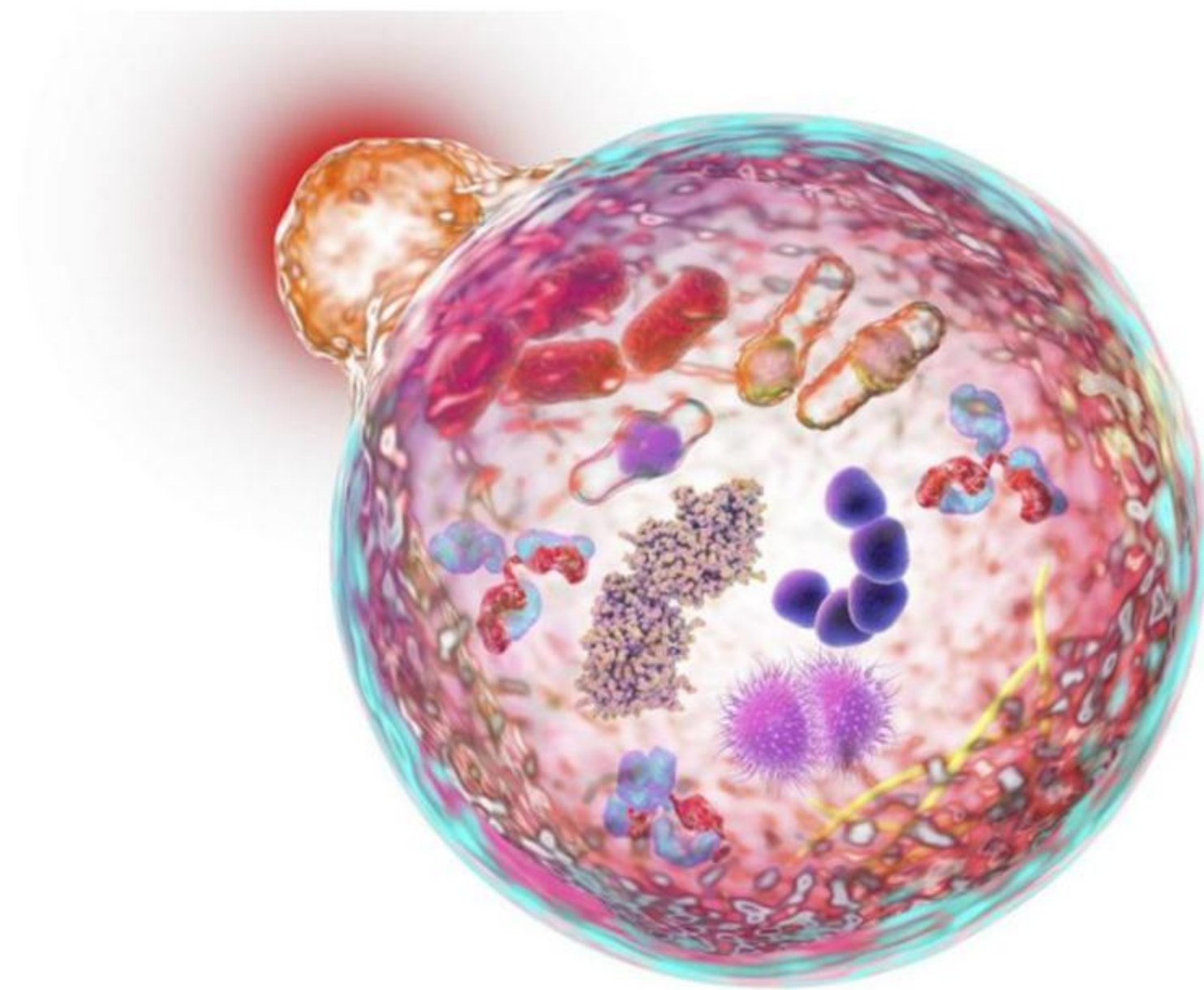
## MECHASIM

- Boost the synthesis of collagen & elastin

Up-regulate the expression of multiple protein gene, such as transmembrane protein, growth factor and matrix protein etc.

- Improve the cellular autophagy

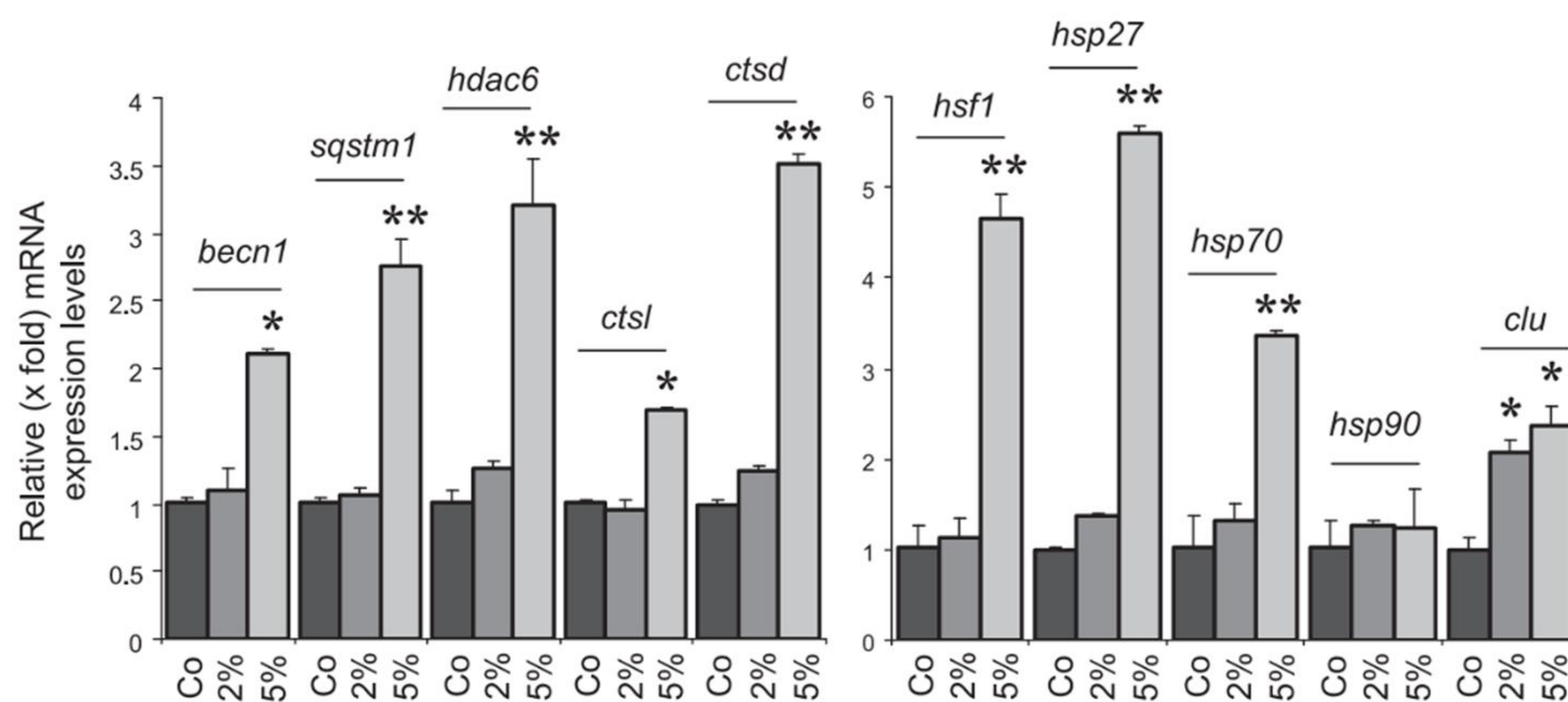
1. Up-regulate autophagy-related proteins and Nrf2 signaling pathway-related proteins.
2. Clean up harmful material inside the cells.
3. Rejuvenate the cell, maintain skin health and repair skin.



## EFFICACY TEST

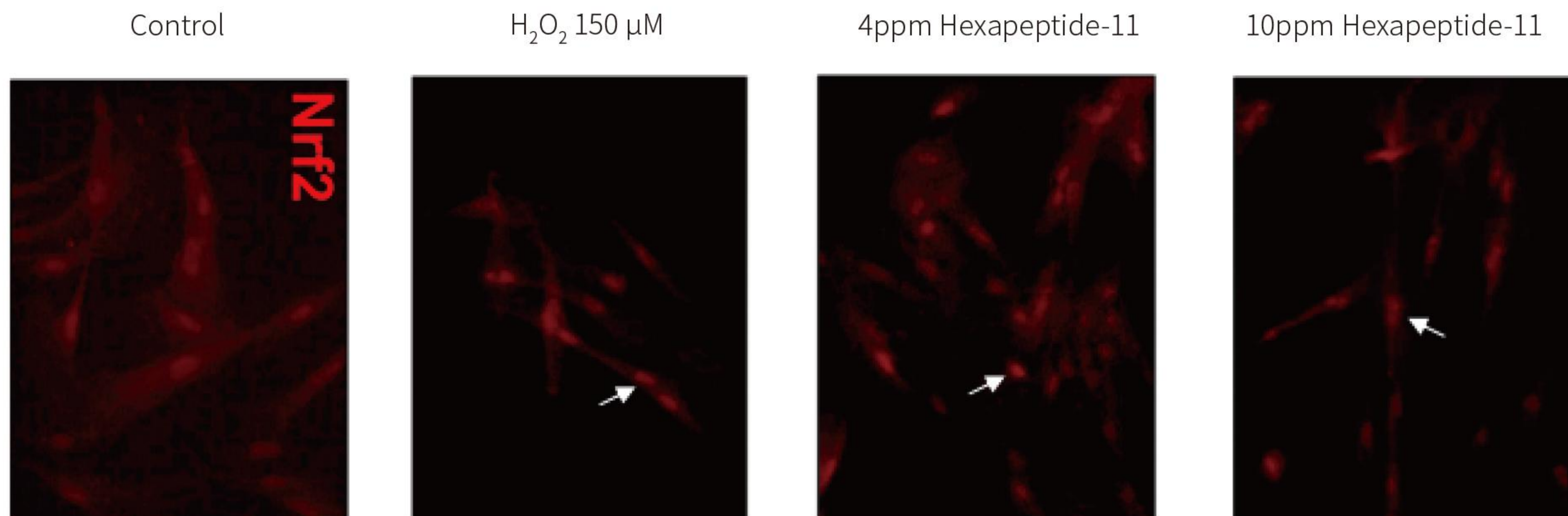
### In vitro test

- Regulate proteins associated with autophagic system



Note: *becn1, sqstm1, hdac6, ctst,ctsd,hsf1, hsp27, hsp70, hsp90* and *clu* is autophagic lysosomal-related proteins; 2% means 4ppm hexapeptide-11, 5% means 10ppm hexapeptide-11.

- Regulate cellular autophagy by promoting upregulation of Nrf2 signaling pathway-related proteins



Reference: A.D. Sklirou, et al. *Redox Biology*, 2015: 205-215.

## Anti-wrinkle & Skin repairing

Test protocol

- 35 volunteers, female, 37-60' s
- An emulsion with 2% WKPep<sup>®</sup> CLP2 PLUS (containing with Hexapeptide-11 & Trifluoroacetyl tripeptide-2) was applied on face, twice daily for 8 weeks.



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