

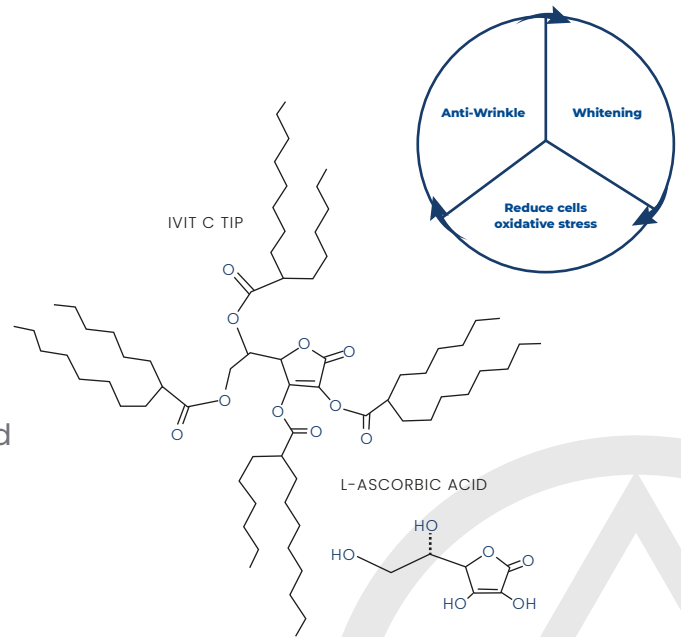
# IVIT C TIP

LIPOSOLUBLE VERSION OF VITAMIN C.  
ENHANCED PENETRATION AND STABILITY.

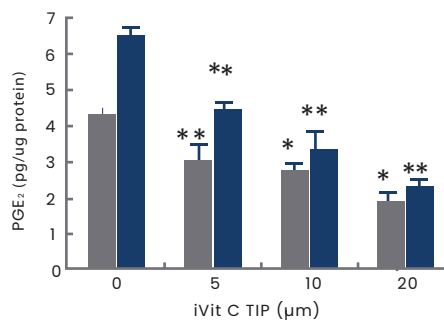
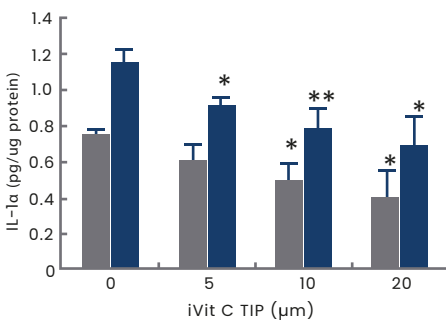
- Protects against Oxidative Stress
- Inhibits melanogenesis
- Promotes Collagen Synthesis

iVit C TIP is a derivative of vitamin C, which is vitamin C with four isopalmitate groups, synthesized to form a highly stable whitening ingredient and antioxidant. VC-IP is also very stable in high temperature environments, is not easy to change color, and has a high durability.

iVit C TIP has good solubility in oil. Because of the four isopalmitate groups, iVit C TIP can be easily absorbed through the skin and effectively decomposed into free vitamin C to exert its various physiological functions, such as whitening, promoting collagen growth, and Anti-aging and other effects.



## ANTI- INFLAMMATORY EFFECT AFTER UV IRRADIATION



**[Result]** iVit C TIP can effectively inhibit the secretion of inflammatory factors IL-1α and PGE<sub>2</sub> in keratinocytes irradiated by UVB.

## COLLAGEN SYNTHESIS

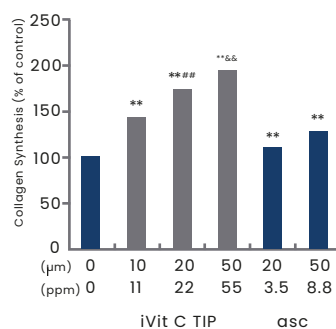


Fig. After culturing human fibroblast NHDF with different concentrations of iVit C TIP or vitamin C (Asc), assay the amount of collagen secretion

**[Result]** The above figure showed that the amount of type IV collagen increased by iVit C TIP is more than that of vitamin C alone.

# MOISTURE RETENTION

**TABLE 1 Protective effect of iVIT C TIP against cell damage induced by oxidative stress, UVB, H2O2 and t-BHP**

	µM	Tolerance against UVB		Tolerance against H2O2		Tolerance against T-BHP	
		Survival (%)	t-Test	Survival (%)	t-Test	Survival (%)	t-Test
Control	0	77.07 +- 5.52		38.16 +- 1.46		74.58 +- 5.90	
iVit C TIP	100	93.83 +- 1.72		45.59 +- 3.52		103.31 +- 1.60	

Data are expressed as average +- standard deviation (n=4).

\*\* Significance (Student's t-test): p < 0.01

**[Result]** From the experimental results, iVit C TIP has the function of resisting these three kinds of oxidative stress, and the cell viability of HaCaT cells treated with iVit C TIP is higher than that of the control group.



## Formulation instructions

The temperature can be 70°C in the formula processing.

In the formula pH value is around 4-6.

Recommended dosage: 0.1%-3.0% (Below 3%)



## Application

It can be used in any kind of skin care product such as ampule, essence, toner, lotion and cream.

## Technical Data

Appearance	Liquid
Color	Light yellow transparent
Refractive Index	1.4609
Purity	100%



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