### βιολικσμιλ 🙆

### **IACTIVE SOD**

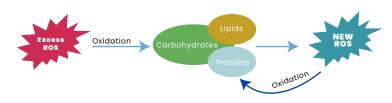
- Is the top multi-functional superoxide dismutating agent. - Can effectively remove ROS. - Has high stability at room temperature ang high cost

What is ROS?

#### Normal Physiological status H2O2 Bacteria 02 Delete Metabolism POS Our Body

ОН

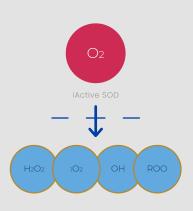
#### **Excess ROS**



ROS CHAIN

Mechanism

#### iActive SOD can cut off the source of free radicals.



1. Ni3+ + O2- → Ni2+ + O2 Simultaneous reduction of Ni3+ and oxidation of superoxide O2-

2. Ni2+ + O2- + 2H+ → Ni3+ + H2O2 Simultaneous oxidation of Ni2+ and reduction of O2-

3. 2H2O2 - -> O2+ 2H2O2 Reduction reaction catalyzed by the complex Ni ion.

"Ni" ion is more active and better than other metals.

## Synthesis

Damage cells

 $\mathbf{O}$ 

 $\bigcirc$ 

performance.

Blue- Green Algae have evolved to have an enzyme that resists free radicals: superoxide dismutase

iActive SOD is the first multi-functional and world-leading biomimetic SOD, which isa small molecular structure synthesized by simulating the active center of superoxide dismutase in blue-green algae.

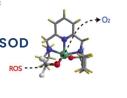






**SOD Structure** 

**iActive SOD** 







#### Redness



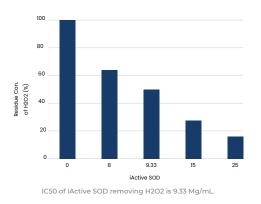
The subject's skin is sensitive. After applying 1% of iActive SOD for 30 days, the inflammation was improved.



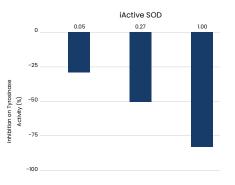


The subject's skin is sensitive. After applying 1% of iActive SOD for 30 days, the inflammation was improved.

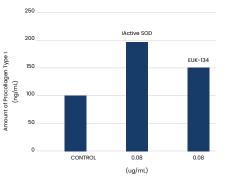




Whitening



iActive SOD is very effective in inhibiting tyrosinase to prevent melanin production IC50 is only 267.69 ug/mL.



Collagen Synthesis

# TECHNICAL INFORMATION

Item	iActive SOD
Molecular Weight	÷950 Da
Solubility	(1) Water soluble (2) Oil soluble (Coming soon!)
Solubility	Stable activity for a long time
Price	Competitive
Ph Range	рН 3.5-9
Storage	Store in a cool place at room temperature and avoid direct sunlight.

#### Application

iActive SOD can be widely used in skin care products, such as essence, mask liquid, toner, cream, and lotion.

#### Note

The temperature should be lower than 70°C during the formula processing.

It is stable in the formula, even if it's opened, it will not degrade. Only combine with the free radical, it will degrade.

#### Recommended dosage 0.5%-2%

#### Distributed by KIMIKA – 3470 NW 82 AVE – SUITE 770 – 33122 FLORIDA – USA Ph: +1-305-499-9572 Fax:+1-305-499-9577 – info@kimika.us

We have made reasonable efforts to ensure that the information and suggestions regarding the statement of ingredients and conditions for use of our products is technically and scientifically accurate and up to date. We and our suppliers and agents neither commit nor guarantee the relevance, accuracy, presentation or use, or suitability of our products to any specific use. Such information and suggestions shall not be deemed to grant any patent license or any other intellectual property right. We cannot guarantee that the use made of our products, information and suggestions will respect the intellectual property rights of other third parties. Customers shall use our products, information and suggestions at their own risk and we will therefore not accept any liability whatsoever for any such above-mentioned accounts.

BIOALKEMIA.COM 1729 NW 84TH AVE MIAMI, FL 33126 USA TEL: 305-499-9572 / 786-469-0193



iActive SOD collagen synthesis test performance is better than EUK-134.