

# 重组人超氧化物歧化酶

## Recombinant Human Superoxide Dismutase (SOD)

### “3大维度” 焕发细胞活力

Rejuvenate cell vitality from Three Dimensions



#### ✓ 酵母发酵，无动物源

Yeast fermentation, no animal origin

#### ✓ 对UV/蓝光受损肌肤有预保护作用

Preprotection on skin damaged by blue light and UV.

#### ✓ 清除自由基

Removal of free radicals

#### 一种具有抗蓝光功效的SOD组合物及其制备方法

A Kind of SOD Composition with Anti-blue light Efficacy and Preparation Method Thereof

NO.: ZL2022105031176

#### 全面修护UV、蓝光，重启细胞活力

Fully defend UV and Blue light, restart cell vitality

- 直达皮肤真皮层，全方位修复由UV、蓝光长时间照射下引起的肌肤老化问题；修复光损伤，增强细胞活性

Reach the skin dermis directly and resist the skin-aging caused by UV and Blue light for a long time in all directions; resist light damage and enhance cell activity.

- 重启细胞活力，提高肌肤代谢能力，修复细胞结构，肌底深层赋能

Restart cell vitality, improve skin metabolism, repair cell structure and deeply energize the skin base.

- 重组人源SOD，人体亲和力高，性质稳定

Recombinant Human SOD has high affinity for human body.

#### 清除自由基，淡化黄气

Remove free radicals, whitening and anti-oxidation

- 清除由细胞中线粒体所产生的活性氧自由基，阻止线粒体、DNA和脂肪类的细胞发生的氧化反应

Remove the reactive oxygen free radicals produced by mitochondria in cells and prevent the oxidation of mitochondria, DNA etc.

- 清除皮肤中的色素沉积物，滋润修护，焕肤美白

Remove pigment deposits in the skin and moisturize and whiten the skin.



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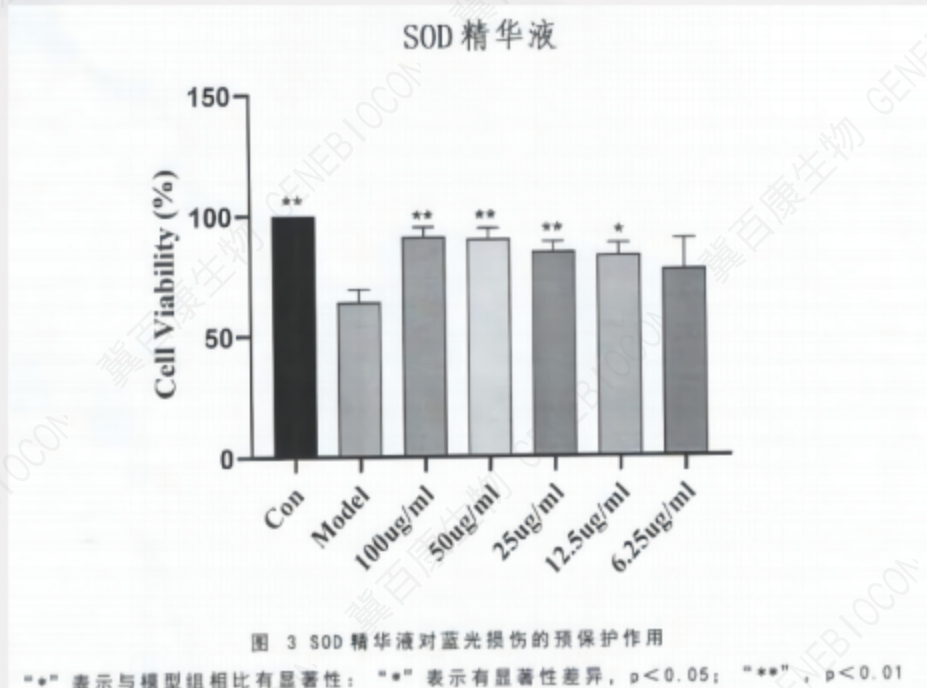
# 测试数据 Test Data

## · 抗蓝光辐射第三方测试

Third-party test of resistance to blue light radiation

### SOD对蓝光损伤肌肤修复功效明显

SOD has an significant effect of Blue light



所有浓度的SOD对λ=450nm的LED-BL造成的细胞损伤均有**预保护作用**, 特别是在100ug/ml、50ug/ml、25ug/ml的浓度下具有**极显著性**

SOD of all concentrations has a pre-protective effect on cell damage caused by LFD-BL (λ=450nm); it is remarkable especially at the concentration of 100ug/ml、50ug/ml、25ug/ml.

\*数据来源: 冀百康检第三方测报告

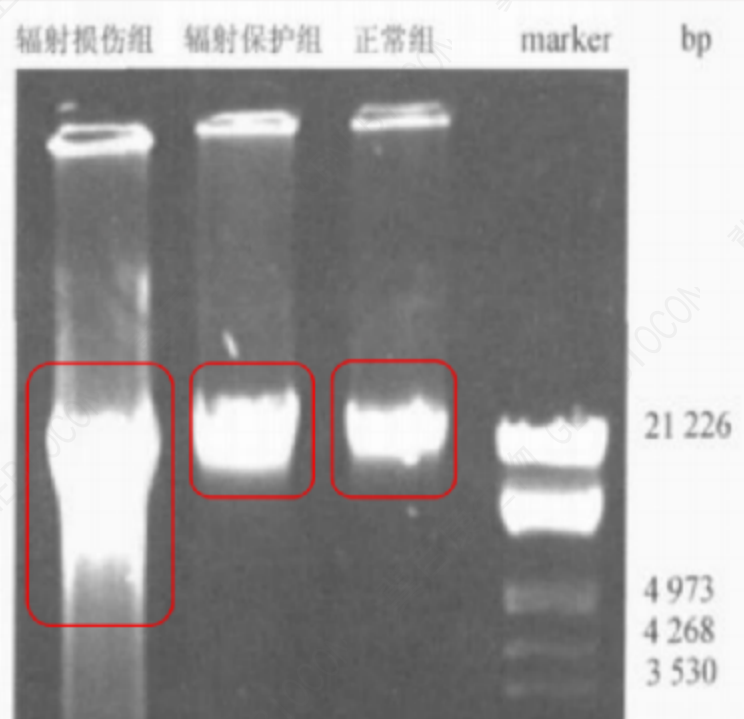
\*Source: Gene-Biocon's third-party test data.

## · 细胞功效测试

Cell efficacy test

### SOD可以有效的保护细胞DNA

SOD can effectively protect cell DNA



· UV损伤组DNA明显断裂为不同大小的DNA片段, 电泳上呈现拖尾状  
 The DNA in UV damage group was obviously broken into DNA fragments of different sizes, showing a trailing pattern.

· SOD保护组DNA损伤明显降低, DNA与正常组差异不大, 抵抗UV辐射损伤明显  
 DNA damage in SOD protection group was significantly reduced. DNA in this group was not largely different from that in the normal group but with obvious resistance to UV radiation damage.

\*数据来源: 赵花琴, 张晨, 刘元刚, 等. 融合蛋白PTD—SOD对紫外辐射引起的细胞损伤的保护作用[D]., 2009.

\* Source: Huaqin Zhao, Chen Zhang, Yuangang Liu, et al. Protective effect of fusion protein PTD-SOD on cell damage induced by ultraviolet radiation [D]., 2009.

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