



TRAUTEC
创健医疗

Vegan PDRN-tFNA

(TTH01-01LC)

INCI Name: DNA

CAS No: 9007-49-2

Gene-level Anti-aging Care



Gene-level Anti-aging Care

— Opening a New Era of Anti-aging

The core tetrahedron (tFNA) consists of four meticulously designed oligonucleotide chains, that form a closed tetrahedral structure through complementary base pairing, showing unique structural advantages:

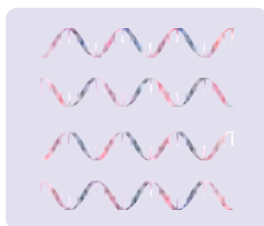


Presenting a unique tetrahedral structure

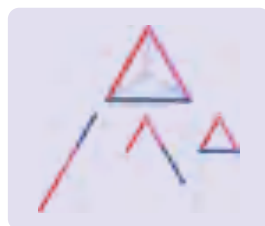


4321 Trinity

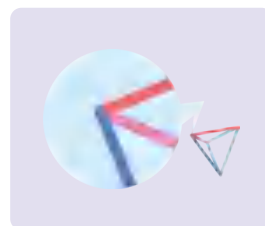
The unique spatial conformation determines specific biological functions



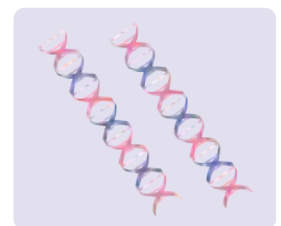
4 DNA single strains



Self-assemble and fold into 3 edges



Each corner of Trinity is formed by the intersection of 1 DNA strands



Each edge contains 21 base pairs



High mechanical strength

Maintains structural integrity in various biological environments



Excellent stability

Effective resistance to nuclease degradation



Editability

Enables connection with various substances and integration of multiple functions



Good biocompatibility and safety

Without causing adverse immune reactions or cellular damage



Outstanding transdermal and membrane penetration ability

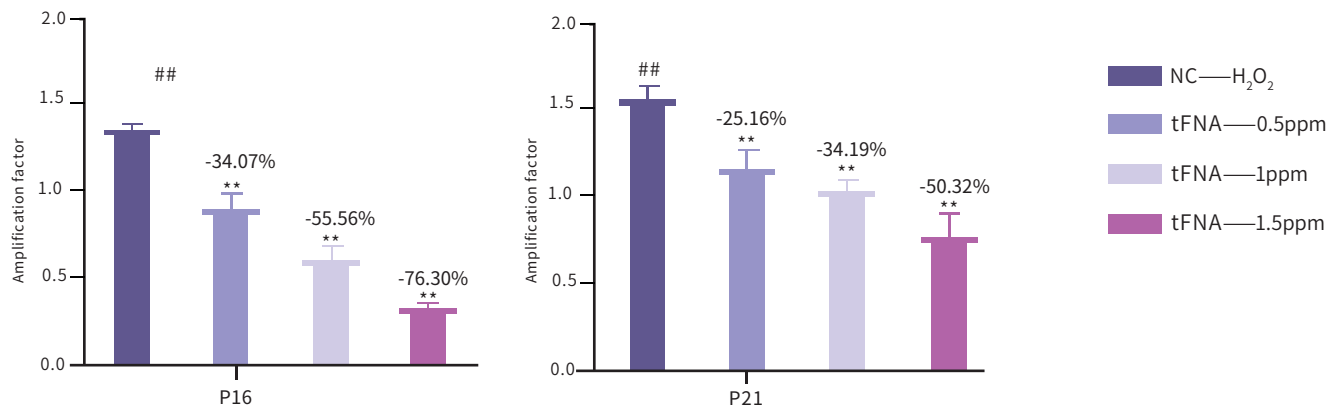
Entering cells via caveolin-mediated endocytosis

In-vitro Test

TRAUTEX

Inhibition of Cellular Replicative Senescence - Fibroblasts

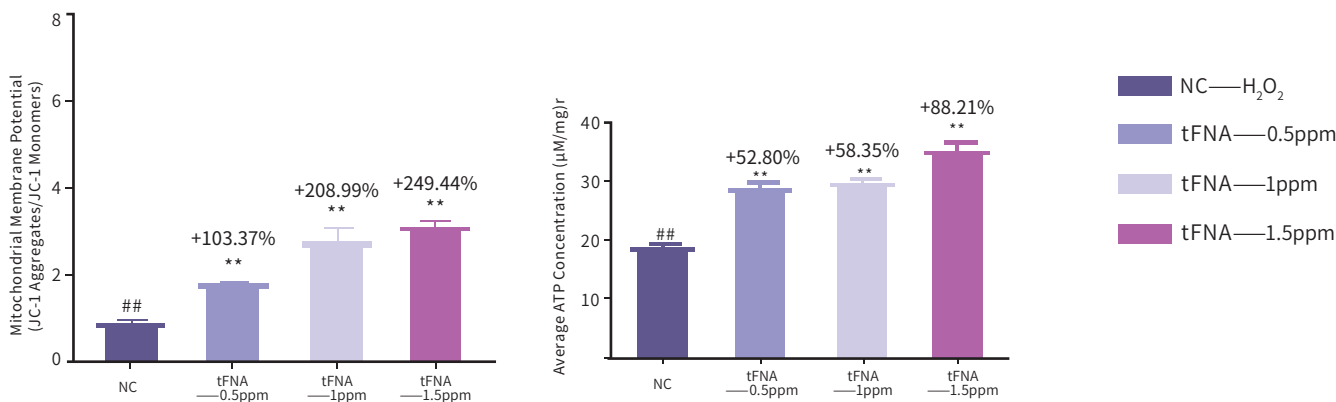
—Downregulation of Cell Cycle Inhibitory Gene Expression (P16, P21)



Note: H₂O₂ induction stimulates replicative senescent cells (P40-fibroblasts), leading to an increase in the levels of cell cycle inhibitory proteins.

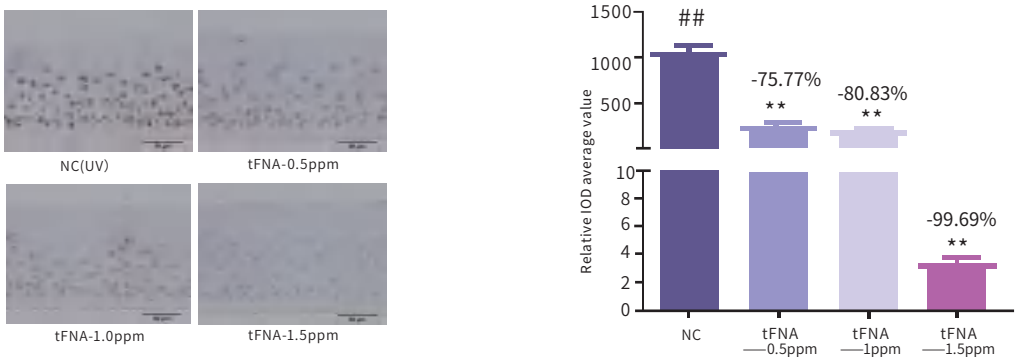
Activation of Mitochondrial Function - Fibroblasts

- Enhancement of Mitochondrial Energy and Vitality —Mitochondrial Membrane Potential (JC-1)
- Promotion of Mitochondrial ATP Production



DNA Damage Repair – Epidermal Model EpiKutis

Inhibits the expression of DNA damage product (CPD).



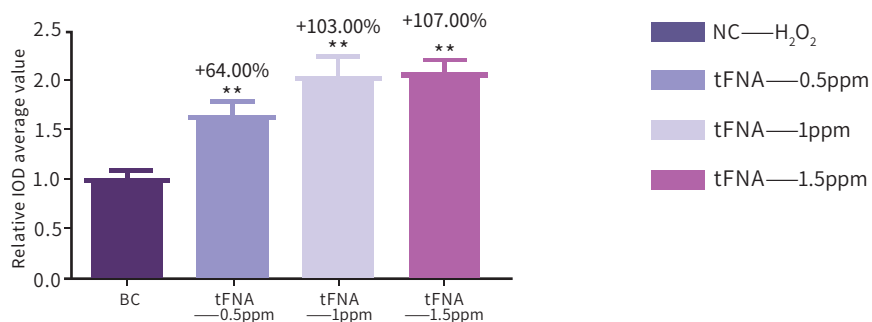
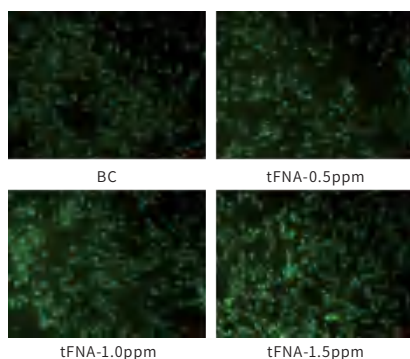
Note: UVB irradiation induces oxidative stress, leading to an increase in the secretion of the DNA damage product CPD. After tFNA treatment, CPD levels were significantly reduced.

In-vitro Test

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Promoting Cellular Autophagy Function – Fibroblasts

Enhances the expression of autophagosomes.



Specification

Recommended dosage:
2%

Storage conditions:
Room temperature,
sealed storage

tFNA content
≥0.005%

Physical state
Liquid

Product name

tFNA

Product model

TTH01-01LC

PH

5.0-8.0

Color

Colourless and transparent
or semi-transparent

Odor

No or slightly characteristic odors

Efficacy

Anti-aging, Repairing, Nourishing

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创建医疗



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