

BGT™Oy-Oligo-P32

Highly Effective Antimicrobial & Antiacne Peptide

Technical Bottleneck of Acne Products:

- Low pH, difficult to formulate the finish products
- Most of antiacne fungicides products are highly irritating, causing severe pain and severe allergies
- Acne removal is not effective and normally take long time
- Poor product safety and leave obvious acne remark



Antimicrobial Peptides Inspired from Oysters

Oysters belong to marine mollusks. Because they live in intertidal areas with complex environments and full of various microorganisms, the long-term evolution has enabled the oyster genome to encode rich and novel antimicrobial peptides, which is a natural antimicrobial peptide resource.



BGT™Oy-Oligo-P32 was biosynthesized through our distinctive AIGC protein generation evolution design platform, aiming to replicate the oyster plasma. This process enables the production of a highly effective antimicrobial and anti-acne peptide.

BGT™Oy-Oligo-P32 has 4 unique characteristics:

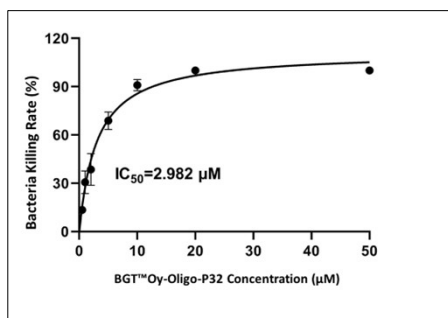
- Strongly inhibits Propionibacterium acnes
- Strong penetration, good effect on non-open acne
- Does not stimulate the release of cell inflammatory factors, relieve redness, swelling and pain
- Extremely Safe, non-toxic, non-irritating

Clinical Evaluation and Results

67% of subjects who used 5% BGT™Oy-Oligo-P32 lotion showed significant improvement after 3 days of use. In contrast, only five people in the control group improved on day 3. After the 12th day of use, the improvement rate of the experimental group reached 100%, and the self-healing ratio of the corresponding control group was 26.7%. It can be concluded that BGT™Oy-Oligo-P32 has a very good ability to remove acne.



Bacteriostatic Properties of BGT™Oy-Oligo-P32



- For Propionibacterium acnes, **Oy-Oligo-P32** can play a bactericidal and antibacterial role at very low concentrations.
- The IC₅₀ of the antibacterial peptide **Oy-Oligo-P32** against Propionibacterium acnes (ATCC: 6919) was 2.982 µM using the best-fit calculation of the graphpad prism software