

【CLAIMS】

1. A compound having a structure in which isotretinoin and a peptide are linked to each other via a covalent bond,

wherein the peptide is a linear molecule which is formed by linking amino acids to each other via a peptide bond,

wherein the peptide is a water-soluble peptide consisting of the sequence of 8 to 30 amino acids,

wherein the water-soluble peptide is a peptide in which the proportion of amino acids having a hydrophilic side chain is 50% to 100% and the proportion of amino acids having a hydrophobic side chain is 0% to 50%,

wherein the amino acids having the hydrophilic side chain are selected from the group consisting of arginine (Arg), histidine (His), lysine (Lys), aspartic acid (Asp), glutamic acid (Glu), serine (Ser), threonine (Thr), asparagine (Asn), glutamine (Gln), Cysteine (Cys), selenocysteine (Sec), glycine (Gly), and proline (Pro), and

wherein the amino acids having the hydrophobic side chain are selected from the group consisting of alanine (Ala), valine (Val), isoleucine (Ile), leucine (Leu), methionine (Met), phenylalanine (Phe), tyrosine (Tyr), and tryptophan (Trp).

2. The compound according to claim 1, wherein the peptide consists of the sequence of 8 to 15 amino acids.

3. The compound according to claim 1, wherein the proportion of amino acids having the hydrophilic side chain in the water-soluble peptide is 70% to 100%.

4. The compound according to claim 3, wherein the proportion of amino acids having the hydrophilic side chain in

the water-soluble peptide is 90% to 100%.

5. The compound according to claim 1, wherein the amino acid having a hydrophobic side chain in the water-soluble peptide is 0 to 5.

6. The compound according to claim 5, wherein the amino acid having the hydrophobic side chain in the water-soluble peptide is 0 to 3.

7. The compound according to claim 1, wherein the peptide is a peptide having the amino acid sequence consisting of SEQ ID NO: 1.

8. An antibiotic, anti-inflammatory, or anti-oxidative pharmaceutical composition comprising the compound of any one of claims 1 to 7.

9. An antibiotic, anti-inflammatory, or anti-oxidative cosmetic composition comprising the compound of any one of claims 1 to 7.

10. The cosmetic composition according to claim 9, having the formulation selected from the group consisting of a skin softener, a nutrition lotion, a nutrition cream, a massage cream, an essence, an eye cream, a cleansing cream, a cleansing foam, a cleansing water, a pack, a spray, a powder, a hair tonic, a hair cream, a hair lotion, a hair shampoo, a hair rinse, a hair conditioner, a hair spray, a hair aerosol, a pomade, a sol-gel, an emulsion, an oil, a wax, and an aerosol.