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# United States Patent [19]

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**Leung**

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[54] **COMPOSITION AND METHODS FOR TREATMENT OF ACNE VULGARIS AND FOR RETARDATION OF AGING**

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### [30] Foreign Application Priority Data

Mar. 27, 1990 [GB] United Kingdom ..... 9006785

### [57] ABSTRACT

[51] **Int. Cl.<sup>6</sup>** ..... **A61K 31/44**; A61K 31/415; A61K 31/195

A method and pharmaceutical composition are described for treatment of acne vulgaris which comprises administering to a patient suffering from acne vulgaris an effective amount of a pharmaceutical composition comprising pantothenic acid or a derivative thereof which generates pantothenic acid in the body to form Coenzyme A (CoA), nicotinic acid or a derivative thereof which generates nicotinamide adenine dinucleotide (NAD) or nicotinamide adenine dinucleotide phosphate (NADP) in the body, and biotin, or a mixture thereof.

[52] **U.S. Cl.** ..... **514/356**; 514/392; 514/563; 514/859

[58] **Field of Search** ..... 514/356, 387, 514/561, 859, 563, 392

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**22 Claims, No Drawings**