United States Patent [19]

Hopp

[11] **Patent Number: 4,554,101**

[45] **Date of Patent: Nov. 19, 1985**

[54] **IDENTIFICATION AND PREPARATION OF EPITOPES ON ANTIGENS AND ALLERGENS ON THE BASIS OF HYDROPHILICITY**

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[21] Appl. No.: **461,802**

[22] Filed: **Jan. 28, 1983**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 223,558, Jan. 9, 1981, and a continuation-in-p^rt of Ser. No. 272,855, Jun. 12, 1981, and a continuation-in-part of Ser. No. 358,150, Mar. 15, 1982.

[51] **Int. Cl.**[4] **C07C 103/52**; C07G 7/00; G01N 33/54; A61K 37/00

[52] **U.S. Cl.** .... **260/112.5 R**; 436/543; 514/17; 514/16; 514/15; 514/14; 514/13; 514/12; 514/2; 424/88

[58] **Field of Search** .... 260/112.5 R; 435/4, 435/5, 7, 68, 70, 69; 436/518, 543, 547; 424/85, 88

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[57] **ABSTRACT**

An immunoglobulin is provided which consists essentially of a mono-specific, hetero-molecular antibody which is mono-specific to a single antigenic or allergenic determinant. The antibody is specific to the H-epitope of a protein antigen or allergen. The H-epitope is defined by a sequence of at least six amino acids corresponding to the sequence of such amino acids in the protein antigen or allergen where the greatest local average hydrophilicity of the protein antigen or allergen is found.

6 Claims, No Drawings