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Soreq et al.

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- [54] **GENETICALLY ENGINEERED HUMAN ACETYLCHOLINESTERASE**
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- [63] Continuation of Ser. No. 496,554, Mar. 20, 1990, abandoned.

Foreign Application Priority Data

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- [51] **Int. Cl.⁶** **C12N 5/00**; C12N 15/00;
C12N 9/18
- [52] **U.S. Cl.** **435/240.2**; 435/197; 435/370.1;
435/252.3; 536/23.2; 536/23.5
- [58] **Field of Search** 435/320.1, 252.3,
435/240.2; 536/23.2, 23.5

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[57] ABSTRACT

Genetically engineered human acetylcholinesterase and antibodies that define the protein are described. These composition may be used in pharmaceutical preparations for treatment and prophylaxis of organo-phosphorous compound poisoning or post-operative apnea. Also described are human cholinesterase DNA probes which may be employed for diagnosing progressing ovarian carcinomas and hemocytotoxic disorders.

19 Claims, 32 Drawing Sheets