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FORM PTO-1595 (Rev. 6-93)

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Attorney Docket No.: 056291-5043 Z70481/UST

To the Commissioner for Patents Please record the attached original documents or copy thereof. ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies): ASTRAZENECA AB 7.10.02 Additional names of conveying party(ies) attached? NO

2. Name and address of receiving party(ies): 1. ASTRAZENECA AB 15 Stanhope Gate London, England W1K 1LN 2. SHIONOGI & CO. LTD. 1-8, Doshomachi 3-chome, Chuo-ku Osaka 541-0045, Japan

3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: June 13, 2002

Additional name(s) & address(es) attached? NO

A. New Application number(s) or patent number(s): U.S. Patent Application No. 09/913,539 filed December 7, 2001 If this document is being filed together with a new application the execution date of the application is B. Additional numbers attached: No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Donald J. Bird Internal Address: Morgan, Lewis & Bockius LLP Customer No. 009629 Street Address: 1111 Pennsylvania Ave., N.W. City: Washington State: D.C. Zip: 20004

6. Total number of applications and patents involved: 1 7. Total fee (37 C.F.R. §3.41): \$40.00 [X] Authorized to be charged to Deposit Account 50-0310 8. Duplicate Cover Sheet attached

9. Statement and Signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Donald J. Bird Name of Person Signing Reg. No. 25,323 Signature Date July 10, 2002

Total number of pages including cover sheet, attachments and documents: 4

07/15/2002 6TOM11 00000085 500310 09913539 01 FC:581 40.00 CH

1-WA/1827672.1

PATENT --REEL: 013078 FRAME: 0751

## ASSIGNMENT

WHEREAS, AstraZeneca, AB, [hereinafter also referred to as ASSIGNOR], a company created and existing under the Laws of Sweden, having its head office at S-151 85 Södertälje, Sweden, has acquired the entire right, title and interest, by assignment, in and to the application for

United States Letters Patent Serial No. 09/913,539 filed on August 15, 2001;

AND WHEREAS AstraZeneca, AB, a company created and existing under the Laws of Sweden, having its head office at S-151 85 Södertälje, Sweden, and Shionogi & Co. Ltd., a company created and existing under the Laws of Japan, having its head office at 1-8, Doshomachi 3-chome, Chuo-ku, Osaka 541-0045, Japan [hereinafter also collectively referred to as JOINT ASSIGNEES], are desirous of jointly acquiring the entire right, title and interest in and to the above listed application for United States Letters Patent and the invention(s) covered thereby;

NOW, THEREFORE, for and in consideration for the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, the said ASSIGNOR has assigned, sold and transferred, and by these presents does assign, sell and transfer unto the said JOINT ASSIGNEES, the entire right, title and interest in and to the said invention(s), in the United States and its territorial possessions and the entire right, title and interest in and to said application for Letters Patent, and in and to any and all Letters Patent which may be granted on said application in the United States and its territorial possessions and in and to any and all divisions, reissues, continuations and extensions thereof, the same to be jointly held and enjoyed by the said JOINT ASSIGNEES, their successors, assigns and legal representatives, to the full end of the term of any and all Letters Patent which may be granted thereon as fully and entirely as the same would have been held and enjoyed by ASSIGNOR if this assignment had not been made.


The Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all Letters Patent on said application, when granted, in the joint names of AstraZeneca, AB and Shionogi & Co. Ltd. as the joint assignees of

ASSIGNOR's entire right title and interest in and to the same, for the sole use and enjoyment of said JOINT ASSIGNEES, their successors and assigns.

Further, ASSIGNOR agrees that it will communicate to the JOINT ASSIGNEES or their representatives, any facts known to it or the inventors in the listed application for Letters Patent respecting said invention(s), and have the inventors sign all lawful papers, execute all divisions, continuations, substitution, renewal and reissue applications, and execute all necessary assignment papers to cause said applications to be issued as Letters Patent to said JOINT ASSIGNEES, their successors and assigns, in order for the JOINT ASSIGNEES to obtain and enforce proper protection for said invention(s) in the United States and its territorial possessions.

IN WITNESS WHEREOF, AstraZeneca, AB has executed this Assignment  
this 13 day of JUNE, 2002.

Signed by AstraZeneca, AB

By:   
( KEVIN BILL )