FORM PTO-1595 JUL 1 0 2002 RECOR (Rev. 6-93)



ENT OF COMMERCE and Trademark Office

Attorney Docket No.: 056291-5038

Z70474/UST To the Commissioner To Person Please record the attached original documents or copy thereof. ATTN: BOX ASSIGNMENT Name and address of receiving party(ies): 1. Name of conveying party(ies): 1. ASTRAZENECA AB 7,10,02 ASTRAZENECA AB 15 Stanhope Gate London, England W1K 1LN Additional names of conveying party(ies) attached? NO 2. SHIONOGI & CO. LTD. 1-8, Doshomachi 3-chome, Chuo-ku 3. Nature of conveyance: Osaka 541-0045, Japan ☐ Merger **◯** Assignment Change of Name Security Agreement Other Additional name(s) & address(es) attached? NO Execution Date: June 13, 2002 A. New Application number(s) or patent number(s): U.S. Patent Application No. 09/889,409 filed February 22, 2002 If this document is being filed together with a new application the execution date of the application is B. Additional numbers attached: No Name and address of party to whom Total number of applications and patents involved: 1 correspondence concerning document should be mailed: 7. Total fee (37 C.F.R. §3.41): <u>\$40.00</u> Name: Donald J. Bird X Authorized to be charged to Deposit Account 50-0310 Internal Address: Morgan, Lewis & Bockius LLP 8. Duplicate Cover Sheet attached Customer No. 009629 Street Address: 1111 Pennsylvania Ave., N.W. City: Washington State: D.C. Zip: 20004 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.

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

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Name of Person Signing

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Donald J. Bird

Reg. No. 25,323

PATENT REEL: 013078 FRAME: 0838

July 10, 2002

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. 09/889,409 filed on July 17, 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 The University Court of the University of Aberdeen of Regent Walk, Aberdeen, AB24 3FX, United Kingdom [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 The University Court of the University of Aberdeen of

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PATENT REEL: 013078 FRAME: 0839 Regent Walk 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, AstraZene	eca, AB has executed this Assignment
this 13 day of JUNE,	2002.
Signed by AstraZeneca, AB	

By:_	hours Kall				
(KEVIN	BILL)

RECORDED: 07/10/2002