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| Form PTO-1595 (Rev. 03/01) | | U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office | |
| OMB No. 0651-0027 (exp. 5/31/2002) | | 102601921 | |
| To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. | | | |
| 1. Name of conveying party(ies): Yu MOMOSE, Tsuyoshi MAEKAWA, Hiroshi IMOTO, Hiroyuki ODAKA, Hiroyuki KIMURA Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 2. Name and address of receiving party(ies) Name: <u>Takeda Chemical Industries Ltd.</u> Internal Address: _____ <u>Intellectual Property Department</u> Street Address: <u>1-1, Doshomachi 4-chome</u> <u>Chuo-ku</u> City: <u>Osaka</u> State: <u>Japan</u> Zip: <u>540-8645</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ August 8, 8, 8, 11, 7, 2003, respectively Execution Date: | | | |
| 4. Application number(s) or patent number(s): <u>10 472 159</u> If this document is being filed together with a new application, the execution date of the application is: <u>9/22/03</u> A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| 5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Mark Chao, PhD, JD</u> Internal Address: _____ <u>Takeda Pharmaceuticals North America, Inc.</u> <u>Intellectual Property Department</u> Street Address: <u>Suite 500</u> <u>475 Half Day Road</u> City: <u>Lincolnshire</u> State: <u>Illinois</u> Zip: <u>60069</u> | | 6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41).....\$ <u>\$40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>500799</u> (Attach duplicate copy of this page if paying by deposit account) | |
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| 9. Statement and signature. <i>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.</i> <u>Mark Chao, PhD, JD</u> Reg. No. 37,293 Name of Person Signing <u>[Signature]</u> Signature <u>9/19/03</u> Date | | | |
| Total number of pages including cover sheet, attachments, and documents: <u>1</u> Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231 | | | |

PATENT
REEL: 014685 FRAME: 0948

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each of the undersigned inventors hereby sells and assigns, to **TAKEDA CHEMICAL INDUSTRIES, LTD.**, a corporation of Japan, 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0045 Japan (hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to the following invention and U.S. application filed thereon, and the entire right, title and interest in and to any and all Letters Patents which may be granted therefor in the United States, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made.

Title of Invention :

FIVE-MEMBERED HETEROCYCLIC ALKANOIC ACID DERIVATIVE

United States Patent Application :

- ☒ [X] executed concurrently herewith
☐ [] executed on _____
☐ [] Serial No. _____ Filed _____

Each of the undersigned acknowledges that this sale and assignment includes any and all divisions or continuations of said United States patent application, and any and all Letters Patent of the United States which may issue on any such applications, including any and all reissues or extensions thereof.

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, assist in and testify in any related proceedings including interferences or lawsuits concerning this application or continuation, division or reissue thereof, and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to obtain a grant of a valid United States Patent on said invention;

Each of the undersigned hereby grants ASSIGNEE and its legal representatives, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment and specifically, the power to insert in the space provided above, the filing date and application number of the application when known.

In witness hereof, executed by the undersigned on the date(s) opposite the undersigned names.

| NAMES AND SIGNATURES OF INVENTORS | | |
|------------------------------------|------------------------------------|----------------------------|
| 1.Name: Yu MOMOSE | Signature: <i>Yu Momose</i> | Date: <i>Aug. 8, 2003</i> |
| 2.Name: Tsuyoshi MAEKAWA | Signature: <i>Tsuyoshi Maekawa</i> | Date: <i>Aug 8 2003</i> |
| 3.Name: Hiroshi IMOTO | Signature: <i>Hiroshi Imoto</i> | Date: <i>Aug. 8, 2003</i> |
| 4.Name: Hiroyuki ODAKA | Signature: <i>Hiroyuki Oodaka</i> | Date: <i>Aug. 11, 2003</i> |
| 5.Name: Hiroyuki KIMURA | Signature: <i>Hiroyuki Kimura</i> | Date: <i>Aug. 7, 2003</i> |
| NAMES AND SIGNATURES OF WITNESSES* | | |
| Name/ Tomoyo KOZAWA For: 1 - 3 | Signature: <i>Tomoyo Kozawa</i> | Date: <i>Aug. 8, 2003</i> |
| Name/ Eisho SUGINO For: 4 | Signature: <i>Eisho Sugino</i> | Date: <i>Aug. 11, 2003</i> |
| Name/ Tomoyo KOZAWA For: 5 | Signature: <i>Tomoyo Kozawa</i> | Date: <i>Aug. 7, 2003</i> |
| Name/ For: | Signature: | Date: |
| Name/ For: | Signature: | Date: |

*Notice for Witnesses! Please indicate which inventor(s) you are signing for by writing the corresponding numbers after "For."