

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yasuhiro Hiraishi</td> <td>12/07/2010</td> </tr> <tr> <td>Muneo Nonomura</td> <td>12/07/2010</td> </tr> </tbody> </table>		Name	Execution Date	Yasuhiro Hiraishi	12/07/2010	Muneo Nonomura	12/07/2010
Name	Execution Date						
Yasuhiro Hiraishi	12/07/2010						
Muneo Nonomura	12/07/2010						
RECEIVING PARTY DATA							
Name:	Takeda Pharmaceutical Company Limited						
Street Address:	1-1, Doshomachi 4-chome, Chuo-ku						
City:	Osaka-shi						
State/Country:	JAPAN						
Postal Code:	541-0045						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13056593</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13056593		
Property Type	Number						
Application Number:	13056593						
CORRESPONDENCE DATA							
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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NAME OF SUBMITTER:	Edmund Koundakjian, PhD						
Signature:	/Edmund Koundakjian, PhD/						
Date:	04/18/2013						
Total Attachments: 2 source=Executed_Assignment_87995-46590#page1.tif source=Executed_Assignment_87995-46590#page2.tif							

CH \$40.00 13056593

Docket No.

ASSIGNMENT

I/We, Yasuhiro HIRAISHI and Muneo NONOMURA
(inventors), for good and valuable consideration from
Takeda Pharmaceutical Company Limited
(assignee), having its principal place of business at
1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0045 Japan
(address) hereinafter called the Assignee,
receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto the
Assignee, its successors and assigns, the entire right, title and interest in, to and under an
application for Letters Patent of the United States Serial No. _____ filed on
_____ for improvements in the PHARMACEUTICAL COMPOSITION
_____ (title)
priority rights ensuing therefrom, and the inventions and any of them therein set forth and
described, in any and all Letters Patent of the United States and of countries foreign
thereto which may be granted thereon or therefor, together with the right to apply for
such Letters Patent.

And for the above consideration I/We agree promptly upon request of the
Assignee, its successors or assigns, to execute and deliver without further compensation
any power of attorney, assignment, application, whether original, divisional, continuation
or reissue, or other papers which may be necessary or desirable fully to secure to the
Assignee, its successors and assigns, the inventions and any of them described in said
application and all patent rights therein, in the United States and in any country foreign
thereto.

The undersigned agree(s) to furnish all pertinent facts and documents relating to said
application, said invention and said patent(s) as may be known and accessible to the
undersigned, and will testify as to the same in any interference or litigation related thereto,
and will promptly execute and deliver to Assignee any and all papers, instruments or
affidavits necessary or desirable to apply for, obtain, maintain or enforce said application or
said patent(s) in connection with any interference which may be declared, and any litigation
concerning this application or any continuation, division or reissue thereof or Patent(s) or
reissue patent(s) issued thereon, and to cooperate with the Assignee in every way possible in
obtaining and producing evidence and proceeding with such interference or litigation.

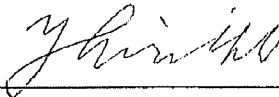
The undersigned agree(s) to execute all papers and documents and to perform any
act which may be necessary in connection with claims or provisions of the International
Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to
obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein
hereby conveyed to said Assignee as fully and entirely as the same would have been held by
the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner for Patents to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that the undersigned has (have) the full right to convey the entire interest herein assigned, and that the undersigned has (have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants Edwards Angell Palmer & Dodge LLP of P.O. Box 55874, Boston, MA 02205, U.S.A. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark, Office for recordation of this document.

I, Yasuhiro HIRAISHI, hereunto set my hand and seal this 7th day of December, 2010.



I, Muneo NONOMURA, hereunto set my hand and seal this 7th day of December, 2010.