PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KOICHIRO FUKUOKA	03/15/2015
KAZUHIRO MIWA	04/02/2015
TSUYOSHI SASAKI	04/03/2015
FUMIYA KOMURA	03/31/2015

RECEIVING PARTY DATA

Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED
Street Address:	1-1, DOSHOMACHI 4-CHOME, CHUO-KU
City:	OSAKA-SHI, OSAKA
State/Country:	JAPAN
Postal Code:	541-0045

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17694635

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NAME OF SUBMITTER:	MATTHEW C. STEVENS
SIGNATURE:	/Matthew C. Stevens/
DATE SIGNED:	03/15/2022

Total Attachments: 7

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this	day of	, by
Koichiro FUKUOKA; Kazuhiro MIWA; Tsuyo	oshi SASAKI; and Fumi	ya KOMURA
(hereinafter referred to as Assignors), residing	at c/o Takeda Pharmace	itical Company Limited,
17-85, Jusehonmachi 2-chome, Yodogawa-ku,	Osaka-shi, Osaka 532-0	024 JAPAN; c/o Takeda
Pharmaceutical Company Limited, 17-85, Juso	honmachi 2-chome, Yoc	logawa-ku, Osaka-shi,
Osaka 532-0024 JAPAN; c/o Takeda Pharmace	eutical Company Limited	l, 17-85, Jusohonmachi
2-chome, Yodogawa-ku, Osaka-shi, Osaka 532	2-0024 JAPAN; and c/o	Γakeda Pharmaceutical
Company Limited, 17-85, Jusohonmachi 2-cho	ome, Yodogawa-ku, Osal	ka-shi, Osaka 532-0024
JAPAN, respectively;		

WHEREAS, Assignors have invented certain new and useful improvements in PRODUCTION METHOD OF THIENOPYRIMIDINE DERIVATIVE, set forth in a Patent application for which an International Application was filed on September 27, 2013, PCT/JP2013/077013, designating the United States; and

WHEREAS, Takeda Pharmaceutical Company Limited, a company organized under and pursuant to the laws of Japan having its principal place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0045 Japan (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial

48504-593N01US

Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner for Patents and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

48504-593N01US-7

AND Assignors hereby grant the following individuals 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 United States Patent and Trademark Office for recordation of this document:

 MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.

All practitioners at Customer Number 30623

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

48504-593N01US3

March 31, 2015	福岡孝一郎
Date	Koichiro FUKUOKA
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March 31, 2015	Jami SHIMIZII

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Date ¹	Kazuhiro MIWA
Witness:	
April 2, 2015	Jeumi Shinizu
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Date	Fumiya KOMURA
Witness: March 31, 2015	Lenni Shilmign
Date	Izumi SHIMIZU

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