CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 22-387

ADMINISTRATIVE and CORRESPONDENCE DOCUMENTS



Department of Health and Human Services Food and Drug Administration

PATENT INFORMATION SUBMITTED WITH THE FILING OF AN NDA, AMENDMENT, OR SUPPLEMENT

For Each Patent That Claims a Drug Substance

Form Approved: OMB No. 0910-0513 Expiration Date: 7/31/10 See OMB Statement on Page 3.

NDA NUMBER

22387

NAME OF APPLICANT/NDA HOLDER

andlor Method of Use		nposition)	Onned Thera	apeutics Corp		
The following is provided in accordance with	Section 505(b)	and (c) of the	e Federal Fo	od, Drug, and Cost	netic Act.	
TRADE NAME (OR PROPOSED TRADE NAME) TYVASO (Proposed)	· · · · · · · · · · · · · · · · · · ·					
ACTIVE INGREDIENT(S)	NGREDIENT(S) STRENGTH(S)					
treprostinil sodium	0.6 mg/mi					
	ļ					
DOSAGE FORM			***************************************			
Inhalation Solution			····			
This patent declaration form is required to be submamendment, or supplement as required by 21 CFR 314 Within thirty (30) days after approval of an NDA or supplement. The information submitted in the declaration by FDA for listing a patent in the Orange Book.	1.53 at the addr Oplement, or with 1.53(c)(2)(ii) with	ess provided in hin thirty (30)	21 CFR 314 days of issua	I.53(d)(4), ance of a new paten	t, a new patent	
For hand-written or typewriter versions (only) of thi does not require a "Yes" or "No" response), please atta	s report: If add ch an additiona	itional space is I page referenc	required for cing the ques	any narrative answe	r (i.e., one that	
FDA will not list patent information if you submit a patent is not eligible for listing.					indicates the	
For each patent submitted for the pending NDA, information described below. If you are not submomplete above section and sections 5 and 6. 1. GENERAL	amendment, o nitting any pai	r supplement ents for this	referenced pending NL	above, you must s DA, amendment, or	submit all the r supplement,	
a. United States Palent Number 5,153,222	b. Issue Date o Oct. 06, 199		C.	Expiration Date of Pate Oct. 16, 2014	ent	
d. Name of Patent Owner	Address (of Pat		200 10, 2014			
United Therapeutics Corporation	1735 Connecticut Avenue, N.W Third Floor					
	City/State Washington, DC					
	ZIP Code 20009			FAX Number (if available)		
	Telephone Num	ber		483-4005 Address (if available)		
M	(202) 483-7000	ı	j	•	İ	
 Name of agent or representative who resides or maintains a place of business within the United States authorized to receive notice of patent certification under section 505(b)(3) and (j)(2)(B) of the Federal Food, Drug, and Cosmetic Act 	Address (of agent or representative named in 1.e.) Not Applicable					
and 21 CFR 314.52 and 314.95 (if patent owner or NDA applicant/holder does not reside or have a place of	ler does not reside or have a place of					
business within the United States)	ZIP Code		FAX Number (if available)			
6 1016	Telephone Num		E-Mail	Address (if available)		
f. Is the patent referenced above a patent that has been submapproved NDA or supplement referenced above?			☐ Yes	No No		
g. If the patent referenced above has been submitted previous date a new expiration date?	ly for listing, is the	expiration	☐ Yes	. ✓ No		

FORM FDA 3542a (7/07)

Page 1 PSC Graphics (301) 445-1096 EF



2. Drug Substance (Active		, amendment, or supplement.		
2.1 Does the patent claim the drug substance that is the active ingredient in the drug product described in the pending NDA, amendment, or supplement?		☐ Yes	☑ No	
2.2 Does the patent claim a drug substance that is a different polymorph of the active ingredient described in the pending NDA, amendment, or supplement?		☐ Yes	₩ No	
2.3 If the answer to question 2.2 is "Yes," do you certify that, as of the date of this declaration, you have test data demonstrating that a drug product containing the polymorph will perform the same as the drug product described in the NDA? The type of test data required is described at 21 CFR 314.53(b).			☐ Yes	₽ No
2.4 Specify the polymorphic for	m(s) claimed by the	patent for which you have the test results described in 2.3.		
drug product to administer th	ne metabolite.)	ctive ingredient pending in the NDA or supplement? ne patent claims a pending method of using the pending	☐ Yes	⊘ No
2.6 Does the patent claim only a	n intermediate?			
2.7 If the patent referenced in 2.	1 is a product-by-pro	process patent, is the product claimed in the	Yes	☑ No
2.7 If the patent referenced in 2.1 is a product-by-process patent, is the product claimed in the patent novel? (An answer is required only if the patent is a product-by-process patent.) 3. Drug Product (Composition/Formulation)		Yes	No No	
1.1 Does the patent claim the dre		ed in 21 CFR 314.3 in the conding MDA	·	
3.1 Does the patent claim the drug product, as defined in 21 CFR 314.3, in the pending NDA, amendment, or supplement?3.2 Does the patent claim only an intermediate?		☐ Yes	☑ No	
			☐ Yes	☑ No
3.3 If the patent referenced in 3.1 is a product-by-process patent, is the product claimed in the patent novel? (An answer is required only if the patent is a product-by-process patent.)		Yes	☑ No	
. Method of Use				
		n 4 for each method of using the pending drug produc ding method of use claimed by the patent, provide the fol	t for which a	pproval is being
the pending NDA, amendment, or supplement?		☑ Yes	□ No	
2 Patent Claim Number(s) (as I		Does (Do) the patent claim(s) referenced in 4.2 claim a pending method of use for which approval is being sought in the pending NDA, amendment, or supplement?	✓ Yes	□ No
2a If the answer to 4.2 is "Yes," identify with speci-	Use: (Submit indicat	ion or method of use information as identified specifically in t	he proposed lai	beling.)
ficity the use with reference to the proposed labeling for the drug	TYVASO is indicat symptoms.	ted for the treatment of pulmonary arterial hypertension in p.	atients with NY	YHA Class III
No Relevant Patents				
r this pending NDA, amendment	or supplement, ther	e are no relevant patents that claim the drug substance (activ of use, for which the applicant is seeking approval and with re arted if a person not licensed by the owner of the patent enga	re ingredient),	☐ Yes



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. Declaration Certification				
1 The undersigned declares that this is an accamendment, or supplement pending under s sensitive patent information is submitted puthis submission complies with the requirement frue and correct.	ection 505 of the Federal Food, Drug, and rsuant to 21 CFR 314.53 Lattest that Lam	d Cosmetic Act. This time-		
Warning: A willfully and knowingly false stat	ement is a criminal offense under 18 U.S.	C. 1001.		
2 Authorized Signature of NDA Applicant/Holder or Pate other Authorized Official) (Provide Information below)	Date Signed 13 June 20218			
Wearlow				
OTE: Only an NDA applicant/holder may submit thi older is authorized to sign the declaration but may no	is declaration directly to the FDA. A patent of submit it directly to FDA. 21 CFR 314.53(c)(4	owner who is not the NDA applicant) and (d)(4).		
heck applicable box and provide information below.				
✓ NDA Applicant/Holder	NDA Applicant's/Holder's Attorney, Authorized Official	Agent (Representative) or other		
☐ Patent Owner	Patent Owner's Attorney, Agent (Representative) or Other Authorized Official			
Name Dean Runce Senior Vice President Product of the Account of th		The state of the s		
Dean Bunce, Senior Vice President Regulatory Aff Address				
One Park Drive, Suite 400	City/State Research Triangle Park, Nor	angle Park, North Carolina		
ZIP Code 27709	Telephone Number (919) 485-8350			
FAX Number (if available)	E-Mail Address (if available)			
(919) 313-1298	dbunce@unither.com			
The public reporting burden for this collection of information instructions, searching existing data sources, gathering and momments regarding this burden estimate or any other aspect of An agency may not conduct or specific or support and some search and search may not conduct or specific or		ewing the collection of information. Send or reducing this burden to:		
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Department of Health and Human Services Food and Drug Administration

PATENT INFORMATION SUBMITTED WITH THE FILING OF AN NDA, AMENDMENT, OR SUPPLEMENT

For Each Patent That Claims a Drug Substance (Active Ingredient), Drug Product (Formulation and Composition) andlor Method of Use Form Approved: OMB No. 0910-0513 Expiration Date: 7/31/10 See OMB Statement on Page 3.

NDA NUMBER

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NAME OF APPLICANT/NDA HOLDER

United Therapeutics Corp

und/or ///eu/ou of os	-		
The following is provided in accordance wit	h Section 505(b) and (c) of t	he Federal Food, Drug, and Cosmetic Act.	
TYVASO (Proposed)			
ACTIVE INGREDIENT(S)	STRENGTH(S)		
treprostinil sodium	0.6 mg/ml		
DOSAGE FORM			
Inhalation Solution			
This patent declaration form is required to be subramendment, or supplement as required by 21 CFR 31 Within thirty (30) days after approval of an NDA or sudeclaration must be submitted pursuant to 21 CFR 31 supplement. The information submitted in the declaration by FDA for listing a patent in the Orange Book.	upplement, or within thirty (30	(i121 Crk 314.53(d)(4).) days of issuance of a new patent, a new patent	
For hand-written or typewriter versions (only) of the does not require a "Yes" or "No" response), please attractions and the second sec	is report: If additional space	is required for any narrative answer (i.e., one that	
FDA will not list patent Information if you submit patent is not eligible for listing.	an incomplete patent deck	pration or the patent declaration indicates the	
Information described below. If you are not subscomplete above section and sections 5 and 6. 1. GENERAL a. United States Palent Number	b. Issue Date of Patent		
6,756,033	Jun. 29, 2004	c. Expiration Date of Patent	
d. Name of Patent Owner	Address (of Patent Owner)	Nov. 13, 2018	
United Therapeutics Corporation	1735 Connecticut Avenue, N.W. Third Floor		
	City/State		
	Washington, DC ZIP Code EAY Number // our // all		
	20009	FAX Number (if available)	
	Telephone Number	(202) 483-4005 E-Mail Address (if available)	
Name of agent or representative who resides or maintains	(202) 483-7000		
receive notice of patent certification under section 505(b)(3) and (i)(2)(B) of the Federal Food. Drug and Constitution	Address (of agent or represent Not Applicable	ative named in 1.e.)	
and 21 CFR 314.52 and 314.95 (if patent owner or NDA applicant/holder does not reside or have a place of business within the United States)	City/State		
The States)	ZIP Code	FAX Number (if available)	
	Telephone Number	E-Mail Address (if available)	
. Is the patent referenced above a patent that has been submapproved NDA or supplement referenced above?		☐ Yes ☑ No	
If the patent referenced above has been submitted previous date a new expiration date?	ly for listing, is the expiration	Vac ZI Vi	

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