

A Phase 2 Study of PTG-300 in Non-Transfusion Dependent (NTD) and Transfusion-Dependent (TD) β-Thalassemia Subjects with Chronic Anemia

Main Information Primary registry identifying number Protocol number LBCTR2019020179 PTG300-02 MOH registration number Study registered at the country of origin Study registered at the country of origin: Specify Yes Type of registration Type of registration: Justify Prospective N/A Date of registration in national regulatory agency 01/02/2019 **Primary sponsor** Primary sponsor: Country of origin Protagonist Therapeutics Inc USA Date of registration in primary registry Date of registration in national regulatory agency 26/03/2019 01/02/2019 Public title Acronym A Phase 2 Study of PTG-300 in Non-Transfusion Dependent (NTD) and Transfusion-Dependent (TD) β-Thalassemia Subjects with Chronic Anemia Scientific title Acronym A Phase 2 Study of PTG-300 in Non-Transfusion Dependent (NTD) and Transfusion-Dependent (TD) β-Thalassemia Subjects with Chronic Anemia Brief summary of the study: English This is a Phase 2 open-label, single-arm study with dose escalation by subject cohort and with the potential for individual titration (dose increase or decrease) within each cohort. The primary objectives of the study is to evaluate the safety and tolerability of PTG-300 in subjects with Non-Transfusion Dependent (NTD) and Transfusion Dependent (TD) β-thalassemia. To obtain preliminary evidence of to obtain preliminary evidence of PTG-300's efficacy for treating chronic anemia in subjects with β-thalassemia and to identify the optimal starting dose, titration algorithm, dose range and dose regimen to be used in Phase 3 studies. Brief summary of the study: Arabic فتح التسمية، وذراع واحد مع تصعيد الجرعة حسب الفئات الموضوع وإمكانية معايرة الفردية داخل كل فئة. أهداف الرئيسية2در اسة مرحلة لهذه الدر اسة تقييم السلامة وقابليةالتحمل . لعلاج PTG-300 المصابون بمرض بينا ثلاسيميا المعتمد على نقل الدم و غير المعتمد على نقل الدم.

Health conditions/problem studied: Specify

Chronic anemia due to ineffective erythropoiesis (IE) in subjects with β thalassemia



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Interventions: Specify

Five PTG-300 dose levels/regimens are planned to be tested for each subpopulation of β thalassemia (NTD and TD) on separate arms: •Cohort 1: 3mg subcutaneous (SC) weekly (n = 6 subjects per subpopulation)

•Cohort 2: 10mg SC weekly (n = 6 subjects per subpopulation)

•Cohort 3: 20mg SC weekly (n = 6 subjects per subpopulation)

•Cohort 4a: 40mg SC weekly (n = 6 subjects per subpopulation)

•Cohort 4b: 40mg SC every 2 weeks (n = 6 subjects per subpopulation)

Two additional cohorts (Cohorts 5 and 6, n=6/cohort per subpopulation) will include subjects between 12-<18 years of age at a starting dose of 3mg and 10mg/weekly respectively, with the potential for individual titration (dose increase or decrease) based on the titration algorithm

Key inclusion and exclusion criteria: Inclusion criteria

All subjects must meet ALL of the following inclusion criteria to be enrolled:

1.Male and female subjects aged 18 to 65 years, inclusive (Cohorts 1 4b).

2. Male and female subjects aged 12-<18 years, with a minimum weight of 30 kg (Cohorts 5 and 6).

3.Documented diagnosis of β-thalassemia with no other Hgb abnormality.

4.Women of childbearing potential (WOCBP) and men agree to use a highly effective contraceptive measure (based on the Clinical Trial Facilitation Group [CTFG]) during the duration of the study and for 28 days after the last dose of study drug in the case of women and 90 days after the last dose of study drug in the case of men, as described in Appendix 1.

5.For WOCBP, a negative serum pregnancy test at screening and a negative urine pregnancy test within 24 hours prior to the first dose of study medication.

6.Subjects or legal guardians (in the case of minors) understand the study procedures and agree to participate in the study by giving written informed consent.

7.Subjects, or legal representative (in the case of minors), are willing and able to adhere to the study visit schedule and other protocol requirements.

8. Subjects between 12-<18 years of age understand and provide the assent to participate in the study, according to local guidelines. Inclusion criteria applicable only for NTD β -thalassemia subjects:

1.Mean Hgb < 10.0 g/dL of two measurements (one performed 7–28 days prior to dosing and the other performed within 7 days prior to dosing).

2.Requirement of < 6 units RBC transfusion in a 24 week period with the last transfusion at least 8 weeks before screening. Inclusion criteria applicable only for TD β -thalassemia subjects:

1. Transfusion requirement of at least 6 units of RBC in the 24 weeks prior to randomization with no transfusion free period > 45 days. 2.Last RBC transfusion 5–10 days prior to dosing.

Key inclusion and exclusion criteria: Gender	Key inclusion and exclusion criteria: Specify gender
Both	
Key inclusion and exclusion criteria: Age minimum	Key inclusion and exclusion criteria: Age maximum
12	65

Key inclusion and exclusion criteria: Exclusion criteria

Subjects must meet NONE of the following exclusion criteria to be enrolled:

1. Subjects with the diagnosis of β -thalassemia major (genotype homozygous $\beta 0/\beta 0$ or compound heterozygous $\beta 0/\beta +$ with a major phenotype). 2. Infection requiring hospitalization or IV antimicrobial therapy, or opportunistic infection within 6 months of dosing, any infection requiring antimicrobial therapy within 2 weeks of dosing; history of infection with human immunodeficiency virus (HIV).

3.Subject has a concurrent clinically significant, unstable or uncontrolled cardiovascular, pulmonary, hepatic, renal, gastrointestinal, genitourinary, hematological, coagulation, immunological, endocrine/metabolic or other medical disorder that, in the opinion of the Investigator, might confound the results of the study or pose additional risk to the subject by their participation in the study.

4.Known primary or secondary immunodeficiency.

5. History within 6 months of screening of any of the following: myocardial infarction, unstable angina, transient ischemic attack, decompensated heart failure requiring hospitalization, congestive heart failure (New York Heart Association Class 3 or 4), uncontrolled arrhythmias, cardiac revascularization, stroke, uncontrolled hypertension (resting systolic blood pressure [BP] > 160mmHg or resting diastolic BP > 100mmHg on more than one occasion) or uncontrolled diabetes (Hgb A1c > 9% or > one episode of severe hypoglycemia).

6.Clinically meaningful laboratory abnormalities at screening including, but not limited to, the ranges below:

a.Absolute neutrophil count < 1000/µL

b.Platelet count < 100,000/µL

c.Estimated glomerular filtration rate (eGFR) < 60

d.Alanine aminotransferase (ALT) or aspartate aminotransferase (AST) \ge 2.5 x upper limit of normal (ULN) or direct bilirubin > 1.5 x ULN 7.Treatment with hydroxyurea \le 24 weeks prior to randomization.

8.Use of erythropoiesis-stimulating agent (ESA) \leq 24 weeks prior to randomization.

9.Chronic use of systemic glucocorticoids (anti-inflammatory dose for more than 14 days) ≤ 12 weeks prior to randomization (physiologic replacement therapy for adrenal insufficiency is allowed).

10.Pregnant or lactating females.

11.Any surgical procedure requiring general anesthesia within 1 month prior to screening or planned elective surgery during the study. 12.History of malignant neoplasms within 5 years prior to screening. Subjects who are cancer-free for the 5 years before screening may be enrolled. Subjects with carcinoma in situ, adequately treated non-metastatic basal cell skin cancer, or squamous cell skin cancer that has not recurred for at least 1 year prior to screening, may be enrolled.

13.Current or recent history of alcohol dependence or illicit drug use within 1 year prior to screening.

14.Subject is mentally or legally incapacitated at the time of screening visit or has a history of clinically significant psychiatric disorders that would impact the subject's ability to participate in the trial according to the Investigator. Note: Subjects who have had situational depression or adjustment disorder or treated depression may be enrolled at the discretion of the Investigator.

15.Concurrent participation in any other interventional study.



Type of study Interventional	
Type of intervention	Type of intervention: Specify type
Pharmaceutical	N/A
Trial scope	Trial scope: Specify scope
Therapy	N/A
Study design: Allocation	Study design: Masking
N/A: Single arm study	Open (masking not used)
Study design: Control Dose comparison	Study phase 2
Study design: Purpose	Study design: Specify purpose
Treatment	N/A
Study design: Assignment	Study design: Specify assignment
Single	N/A
IMP has market authorization No	IMP has market authorization: Specify
Name of IMP PTG-300	Year of authorization Month of authorization
Type of IMP	

Cell therapy

Pharmaceutical class

PTG-300 is a peptidic agent structurally related to natural hepcidin that mimics its inhibitory activity on ferroportin.

Therapeutic indication

β thalassemia

Therapeutic benefit

Administration of PTG-300 may result in iron redistribution in β -thalassemia subjects with potentially beneficial effects on erythropoiesis and consequently improvements in chronic anemia. This improvement in ineffective erythropoiesis may result in a clinical benefit both in NTD and in TD β -thalassemia subjects, by improving the symptomatology of the chronic anemia and the complications of the extramedullary hematopoiesis in the first group and by decreasing the need for transfusions in the latter.

Study model

N/A

Study model: Explain model

Time perspective: Explain time perspective

Study model: Specify model

N/A

Time perspective

N/A

Time perspective: Specify perspective N/A

N/A

Target follow-up duration

Number of groups/cohorts

Biospecimen retention Samples without DNA

Biospecimen description

Blood samples taken throughout the study will be shipped to ICON lab in Ireland for analysis. These samples will be then stored at ICON Lab by Protagonist Therapeutics for up to 10 years.

Target sample size 84

Date of first enrollment: Type Anticipated

Date of study closure: Type Anticipated

Recruitment status Pending

Date of completion

IPD sharing statement plan Yes

Additional data URL

none

Admin comments

Trial status Approved

Actual enrollment target size

Date of first enrollment: Date 11/03/2019

Date of study closure: Date

21/07/2020

Recruitment status: Specify

IPD sharing statement description

Patients' full identity will not be on any of the study documents or samples collected and kept by the sponsor for their studies. The full or partial date of birth will only be collected if medically relevant to this study. Only a unique participant number for the study will link the data or samples to the patients. These data may contain your gender and race, as well as any medical and scientific data required by the study.

Target follow-up duration: Unit

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Secondary Identifying Numbers		
Full name of issuing authority	Secondary identifying number	
Food and Drug Administration	IND 137605	

Sources of Monetary or Material Support

Name

Protagonist Therapeutics.inc

Secondary Sponsors

Name

Not applicable

Contact for Public/Scientific Queries						
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Aziz Zoghbi	MCT-CRO, Berytech Technology and Health, 5th Floor Damascus Road, Beirut, Lebanon	Lebanon	009611612 500	zog_az@mct- cro.com	Regional Manager
Scientific	Ali Taher	Chronic Care Center, Hazmieh, Lebanon	Lebanon	009613755 669	ataher@aub.edu. lb	PI

Centers/Hospitals Involved in the Study			
Center/Hospital name	Name of principles investigator	Principles investigator speciality	Ethical approval
Chronic Care Center	Dr. Ali Taher	Professor of Medicine, Hematology & Oncology	Approved

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
Chronic Care Center	02/12/2018	Michele Abi Saad	cccmas@chroniccare.org.lb	05-455101
American University of Beirut Medical Center	18/02/2019	Dr. Deborah Mukherji	irb@aub.edu.lb	01-350000 ext 5445

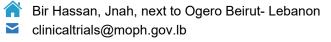




Countries of Recruitment
Name
Lebanon
Thailand
United Kingdom
United States of America
Turkey
Tunisia
Malaysia
Greece
Italy

Health Conditions or Problems Studied		
Condition Code Keyword		Keyword
Thalassemia	Thalassaemia (D56)	Thalassemia

Interventions		
Intervention	Description	Keyword
PTG300	3mg subcutaneous (SC) weekly (n = 6 subjects per subpopulation)	Cohort 1
PTG300	10mg SC weekly (n = 6 subjects per subpopulation)	Cohort 2
PTG300	20mg SC weekly (n = 6 subjects per subpopulation)	Cohort 3
PTG300	40mg SC weekly (n = 6 subjects per subpopulation)	Cohort 4a
PTG300	40mg SC every 2 weeks (n = 6 subjects per subpopulation)	Cohort 4b





Primary Outcomes Name **Time Points** Measure 4-week period under the NTD patients: Mean Hgb change from baseline Hemoglobin test at each dose same dose NTD subjects who achieve an increase in Hgb ≥ 1.0 g/dL 4-week period under the Hemoglobin test at each dose without transfusion same dose. TD Patients: achieve ≥ 20% reduction in the RBC units 8 week period RBC units transfused required over an 8 week period TD patients: Mean change from baseline in the number of 8 week period RBC units transfused units of RBC required under each dose

Key Secondary Outcomes

Rey Secondary Outcomes		
Name	Time Points	Measure
NTD patients: Mean Hgb	at the end of treatment	Hgb test
Proportion of subjects who achieve an increase in Hgb \ge 1.5 g/dL	at any time up to Week 12 in NTD	Hgb test
Duration of response	NTD: Hgb change of ≥1 g/dL without transfusion; or ≥ 20% reduction in the RBC units required over an 8 week period in TD patients	Hbg test in NT; RBC units transfused in TD
Time to response	Hgb change of ≥1 g/dL without transfusion in NTD or ≥ 20% reduction in the RBC units required over an 8 week period in TD	Hbg test in NT; RBC units transfused in TD
TD patients: Mean number of RBC units required	at each dose over the 16 week period	RBC units transfused
Change from baseline in liver iron content	Week 16 for TD or week 12 for NTD	LIC measured by MRI



Trial Results Summary results Study results globally Date of posting of results summaries Date of first journal publication of results Results URL link Baseline characteristics Participant flow Adverse events Outcome measures URL to protocol files