

A Trial to Learn if REGV131-LNP1265 is Safe and Works to Help the Body Make Clotting Factor in Adult Patients with Hemophilia B

Estado

Reclutando

Tipo de Participantes

No aportado

Rangos de Edad

Mayores de 64 , Adultos (18-64 años)

Género

Hombres

Fases

Fase I , Fase II

Participantes esperados

78

Resultados

Sin resultados

Bajo nivel intervención

No

Enfermedad rara

Si

Cobertura geográfica

Sin determinar

Ámbitos del ensayo

seguridad, eficacia

Terapia avanzada

Terapia génica

Información

Identificador

2023-507260-40-00 (CTIS)

Cod. Protocolo

R131L1265-HEMB-2318

Área terapéutica

Enfermedades [C] - Anormalidades congénitas, hereditarias y neonatología [C16]

Enfermedad investigada

Hemophilia B

Título Científico

A Two-Part Open-Label Study of REGV131-LNP1265, A CRISPR/CAS9-Based Coagulation Factor IX Gene Insertion Therapy in Participants with Hemophilia B

Justificación

No aportado

Objetivo Principal

Part 1: To evaluate the safety and tolerability of a single IV administration of REGV131-LNP1265 in participants with hemophilia B.

To evaluate clotting FIX functional activity following a single IV administration of REGV131-LNP1265 in participants with hemophilia B to establish the recommended dose for further development

Part 2A: To evaluate clotting FIX functional activity following a single IV administration of REGV131-LNP1265 in participants with hemophilia B receiving the recommended dose for expansion (RDE). To assess the bleeding event rate (all bleeding events) following a single IV administration of REGV131-LNP1265 at the RDE

Long-term Follow Up (LTFU) Period: To evaluate the long-term safety of a single IV administration of REGV131-LNP1265 in participants with hemophilia B

Variables de Evaluación Primaria

Part 1: Occurrence and severity of Treatment-Emergent Adverse Events (TEAEs).

Part 1: Coagulation Factor IX (FIX) functional activity measured using the chromogenic substrate assay.

Part 2A: Change from baseline in FIX functional activity in plasma after REGV131-LNP1265 dosing at the recommended dose for expansion (RDE) measured using the chromogenic substrate assay.

Part 2A: Annualized Bleeding Rate (ABR) following sustained FIX functional activity (post-REGV131-LNP1265 dosing) among participants receiving RDE.

LTFU Period: Occurrence and severity of Serious Adverse Events (SAEs), Adverse Event of Special Interests (AESIs), and clinically meaningful Adverse Events (AEs).

Momentos temporales de evaluación primaria

No aportado

Objetivo Secundario

Part 1: To evaluate clotting FIX functional activity following a single IV administration of REGV131-LNP1265 in participants with hemophilia B receiving the RDE.

Part 1 and LTFU Period: To assess the bleeding event rate (all bleeding events) following a single IV administration of REGV131-LNP1265 at the RDE.

Part 1 and LTFU Period: To evaluate clotting FIX functional activity following a single IV administration of REGV131-LNP1265 in participants with hemophilia B

Part 1: To assess the bleeding event rate for bleeding events that require treatment with FIX replacement therapy following a single IV administration of REGV131-LNP1265 at the RDE.

Part 1 and LTFU Period: To evaluate FIX replacement therapy use following a single IV administration of REGV131-LNP1265 at the RDE, excluding FIX replacement for invasive procedures

Part 2A: To evaluate the safety and tolerability of a single IV administration of REGV131-LNP1265 in participants with hemophilia B.

Part 2A and LTFU Period: To evaluate clotting FIX functional activity following a single IV administration of REGV131-LNP1265 in participants with hemophilia B.

Part 2A: To assess the bleeding event rate for bleeding events that require treatment with FIX replacement therapy following a single IV administration of REGV131-LNP1265 at the RDE.

Part 2A and LTFU Period: To evaluate FIX replacement therapy use following a single IV administration of REGV131-LNP1265 at the RDE, excluding FIX replacement for invasive procedures

Parts 1 and 2A: To characterize the concentration-time profile of REGV131-LNP1265

Parts 1 and 2A: To assess humoral immunogenicity of REGV131- LNP1265 following a single IV administration.

Parts 1 and 2A: To assess vector shedding after a single IV administration of REGV131-LNP1265.

Variables de Evaluación Secundaria

Part 1: Change from baseline in FIX functional activity in plasma after REGV131-LNP1265 dosing at the RDE, measured using the chromogenic substrate assay.

Part 1 and LTFU Period: ABR following sustained FIX functional activity (post-REGV131-LNP1265 dosing) among participants receiving the RDE.

Part 1, Part 2A and LTFU Period: FIX functional activity in plasma over time during the study period using the chromogenic substrate assay (up to 10 years).

Part 1 and Part 2A: Annualized treated Bleeding Rate (tABR) following sustained FIX functional activity (post-REGV131-LNP1265 dosing) among participants receiving the RDE.

Part 1, Part 2A and LTFU Period: Annualized utilization (IU/kg/year) of FIX replacement therapy following sustained FIX functional activity (post-REGV131-LNP1265 dosing) among participants receiving the RDE.

Part 1 and Part 2A: Remaining free of FIX replacement therapy among those receiving the RDE following sustained FIX expression (post-REGV131-LNP1265 dosing).

Part 1 and Part 2A: Remaining zero spontaneous bleeding events among those receiving the RDE over sustained FIX functional activity period.IX functional activity period (post-REGV131-LNP1265 dosing).

Part 1 and Part 2A: Concentrations of REGV131 components.

Part 1 and Part 2A: Concentrations of LNP1265 components.

Part 1 and Part 2A: Detection of antibodies to the Coagulation Factor IX gene (F9) transgene product FIX protein.

Part 1 and Part 2A: Detection of Total binding Antibodies (TAbS) to the Adeno-Associated Virus 8 (AAV8) capsid proteins.

Part 1 and Part 2A: Detection of Neutralizing Antibodies/Transduction Inhibitors (NAb/TI) to the AAV8 capsid proteins.

Part 1 and Part 2A: Detection of antibodies to LNP1265.

Part 1 and Part 2A: Detection of antibodies to CRISPR-associated protein 9 (Cas9) protein.

Part 1: Detection of vector DeoxyriboNucleic Acid (DNA) in blood, saliva, nasal secretions, semen, urine, and feces over time (Part 1 dose confirmation cohort only)

Part 2A: Occurrence and severity of TEAEs.

Part 2A: Detection of vector DNA in relevant matrices based on data analysis of Part 1 Dose Confirmation Cohort.

LTFU Period: Proportion of participants with zero spontaneous bleeding events following sustained FIX functional activity among those receiving RDE.

LTFU Period: Proportion of participants not requiring FIX replacement therapy following sustained FIX functional activity among those receiving RDE.

Momentos temporales de evaluación secundaria

No aportado

Criterios de Inclusión

Male gender at birth and 18 years of age. Confirmed diagnosis of severe or moderately severe hemophilia B with

medical history of FIX functional activity (2% or <0.02 IU/mL) or documented genotype known to produce severe hemophilia B. Currently taking FIX prophylaxis and previous experience with FIX therapy, as defined in the protocol. Participation in the lead-in period of this interventional study OR a separate lead-in study (R0000-HEMB-2187 [NCT05568459]) for at least 6 months for ABR data while taking FIX prophylaxis, as defined in the protocol. NOTE: Other Inclusion Protocol Defined Criteria Apply.

Criterios de Exclusión

History of FIX inhibitor (clinical or laboratory-based assessment) on 2 or more occasions.
NOTE: Other Inclusion/Exclusion Protocol Defined Criteria Apply
Bethesda inhibitor titer greater than the Upper Limit of Normal (ULN) at screening.
Detectable pre-existing antibodies to the AAV8 capsid; as measured by Enzyme-Linked ImmunoSorbent Assay (ELISA) at prescreening (or final lead-in visit [L-Final], if applicable)
Any significant underlying liver disease such as: cholestatic liver disease, liver cirrhosis, portal hypertension, splenomegaly, hepatic encephalopathy.
Evidence of advanced liver fibrosis or significant fatty liver, as defined in the protocol.
Evidence of cirrhosis and/or portal hypertension as assessed by abdominal ultrasound at screening or measured within 6 months prior to the screening visit.
History of arterial or venous thrombo-embolic events, as defined in the protocol.
History of hypersensitivity to corticosteroids or known medical condition that requires chronic administration of corticosteroids.
Previously received any AAV gene-based therapy or intends to receive approved or investigational AAV-based gene therapy other than REGV131-LNP1265 during the study period.

Calendario

(Última actualización: 22/07/2026)

Autorización 30/09/2024	Inicio de Ensayo 16/07/2025	Inclusión Primer Paciente 10/09/2025	Interrumpido No aportado	Reiniciado No aportado
Fin de reclutamiento No aportado	Fin prematuro (España) No aportado	Fin prematuro (Global) No aportado	Fin del ensayo en España No aportado	Fin del ensayo global No aportado

Promotor

Regeneron Pharmaceuticals Inc. United States

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Contact Person

Medical Affairs

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Monetary support: N/A

Tipo de promotor: Comercial

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Centros

No iniciado (--/--/----)	Complejo Hospitalario Universitario A Coruna A Coruna CORUÑA Hematology	Hospital Universitari Vall D Hebron Barcelona BARCELONA Hematology
No iniciado (--/--/----)	Hospital Universitario Central De Asturias Oviedo ASTURIAS Hematology	Hospital Universitario La Paz Madrid MADRID Hematology
No iniciado (--/--/----)	Hospital Universitario Miguel Servet Zaragoza ZARAGOZA Hematology	Hospital Universitario Y Politecnico La Fe Valencia VALENCIA Hematology
No iniciado (--/--/----)	University Clinical Hospital Virgen De La Arrixaca Murcia MURCIA Hematology	University Hospital Virgen Del Rocio S.L. Sevilla SEVILLA Hematology

Medicamentos

REGV131

SOLUTION FOR INFUSION

IV INFUSION

Principios Activos: N/A

Experimental

LNP1265

SOLUTION FOR INFUSION

IV INFUSION

Principios Activos: N/A

Experimental

Sin resultados

A Trial to Learn if REGV131-LNP1265 is Safe and Works to Help the Body Make Clotting Factor in Adult Patients with Hemophilia B

State
Recruiting

Type of participants
Not provided

Age Ranges
Older than 64 , Adults (18-64 years)

Gender
Men

Phases
Phase I , Phase II

Expected Participants
78

Results
No results

Low level of intervention
No

Rare disease
Yes

Geographic coverage
Undetermined

Areas of the study
safety, effectiveness

Advanced therapy
Gene therapy

Information

Identifier
2023-507260-40-00 (CTIS)

Protocol Code
R131L1265-HEMB-2318

Therapeutic area
Diseases [C] - Congenital, Hereditary, and Neonatal Diseases and Abnormalities [C16]

Investigated Disease
Hemophilia B

Scientific Title
A Two-Part Open-Label Study of REGV131-LNP1265, A CRISPR/CAS9-Based Coagulation Factor IX Gene Insertion Therapy in Participants with Hemophilia B

Rationale

Not provided

Main Objective

Part 1: To evaluate the safety and tolerability of a single IV administration of REGV131-LNP1265 in participants with hemophilia B.

To evaluate clotting FIX functional activity following a single IV administration of REGV131-LNP1265 in participants with hemophilia B to establish the recommended dose for further development

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Long-term Follow Up (LTFU) Period: To evaluate the long-term safety of a single IV administration of REGV131-LNP1265 in participants with hemophilia B

Primary Endpoints

Part 1: Occurrence and severity of Treatment-Emergent Adverse Events (TEAEs).

Part 1: Coagulation Factor IX (FIX) functional activity measured using the chromogenic substrate assay.

Part 2A: Change from baseline in FIX functional activity in plasma after REGV131-LNP1265 dosing at the recommended dose for expansion (RDE) measured using the chromogenic substrate assay.

Part 2A: Annualized Bleeding Rate (ABR) following sustained FIX functional activity (post-REGV131-LNP1265 dosing) among participants receiving RDE.

LTFU Period: Occurrence and severity of Serious Adverse Events (SAEs), Adverse Event of Special Interests (AESIs), and clinically meaningful Adverse Events (AEs).

Temporary moments of secondary assessment

Not provided

Secondary Objective

Part 1: To evaluate clotting FIX functional activity following a single IV administration of REGV131-LNP1265 in participants with hemophilia B receiving the RDE.

Part 1 and LTFU Period: To assess the bleeding event rate (all bleeding events) following a single IV administration of REGV131-LNP1265 at the RDE.

Part 1 and LTFU Period: To evaluate clotting FIX functional activity following a single IV administration of REGV131-LNP1265 in participants with hemophilia B

Part 1: To assess the bleeding event rate for bleeding events that require treatment with FIX replacement therapy following a single IV administration of REGV131-LNP1265 at the RDE.

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Parts 1 and 2A: To assess humoral immunogenicity of REGV131- LNP1265 following a single IV administration.

Parts 1 and 2A: To assess vector shedding after a single IV administration of REGV131-LNP1265.

Secondary Endpoints

Part 1: Change from baseline in FIX functional activity in plasma after REGV131-LNP1265 dosing at the RDE, measured using the chromogenic substrate assay.

Part 1 and LTFU Period: ABR following sustained FIX functional activity (post-REGV131-LNP1265 dosing) among participants receiving the RDE.

Part 1, Part 2A and LTFU Period: FIX functional activity in plasma over time during the study period using the chromogenic substrate assay (up to 10 years).

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Temporary moments of secondary assessment

Not provided

Inclusion criteria

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medical history of FIX functional activity (2% or <0.02 IU/mL) or documented genotype known to produce severe hemophilia B. Currently taking FIX prophylaxis and previous experience with FIX therapy, as defined in the protocol. Participation in the lead-in period of this interventional study OR a separate lead-in study (R0000-HEMB-2187 [NCT05568459]) for at least 6 months for ABR data while taking FIX prophylaxis, as defined in the protocol. NOTE: Other Inclusion Protocol Defined Criteria Apply.

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Calendar

(Last Update: 22/07/2026)

Authorization 30/09/2024	Start of Trial 16/07/2025	First patient inclusion 10/09/2025	Halted Not aported	Restarted Not aported
End of recruitment Not aported	Premature end (Spain) Not aported	Premature End (Global) Not aported	Trial end (Spain) Not aported	Trial end (Global) Not aported

Sponsor

Regeneron Pharmaceuticals Inc. United States

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Monetary support: N/A

Sponsor type: Commercial

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Sites

not initialized (---/---/----)	Complejo Hospitalario Universitario A Coruna A Coruna CORUÑA Hematology	Hospital Universitari Vall D Hebron Barcelona BARCELONA Hematology
not initialized (---/---/----)	Hospital Universitario Central De Asturias Oviedo ASTURIAS Hematology	Hospital Universitario La Paz Madrid MADRID Hematology
not initialized (---/---/----)	Hospital Universitario Miguel Servet Zaragoza ZARAGOZA Hematology	Hospital Universitario Y Politecnico La Fe Valencia VALENCIA Hematology
not initialized (---/---/----)	University Clinical Hospital Virgen De La Arrixaca Murcia MURCIA Hematology	University Hospital Virgen Del Rocio S.L. Sevilla SEVILLA Hematology

Medication

REGV131
SOLUTION FOR INFUSION
IV INFUSION

Active Principles: N/A

Experimental

LNP1265
SOLUTION FOR INFUSION
IV INFUSION

Active Principles: N/A

Experimental

No results