

# A study to assess the safety of selnoflast in participants with chronic obstructive pulmonary disease

<b>Submission date</b> 26/08/2021	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 08/12/2021	<b>Overall study status</b> Stopped	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 04/12/2023	<b>Condition category</b> Respiratory	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English Summary

### Background and study aims

This is a research study (also known as a clinical trial) of a drug called selnoflast. Selnoflast is being developed for the possible treatment of chronic obstructive pulmonary disease (COPD). COPD is the name for a group of lung conditions that cause breathing difficulties.

### Who can participate?

Patients aged 35 and 75 years who have had COPD for at least 1 year); please refer to the inclusion criteria

### What does the study involve?

Participants are randomly allocated to one of two groups. Participants in one group will receive selnoflast and those in the other group will receive placebo capsules that look like selnoflast but do not contain active medication. All participants will receive placebo for at least 14 days during the study.

### What are the possible benefits and risks of participating?

There is no guarantee that participants will receive any benefits from this study, and taking part in this study may or may not cause their health to improve. Information from this study may help doctors learn more about selnoflast and the treatment of COPD. This information may benefit other patients with COPD or a similar condition in the future. Selnoflast has been tested previously in healthy volunteers. Side effects seen were mild headache and nausea in some patients. The side effects resolved without additional treatment. The following are potential risks that may occur with selnoflast, but they have not been observed so far:

Liver toxicity (deterioration of liver function): some of the healthy volunteers who received selnoflast in a previous study showed mild increase in the laboratory parameters used to evaluate the liver function. If patients have an abnormal blood test of liver function, they will not be included in this study. Liver function will be monitored closely during the study through blood tests.

Infection: selnoflast works by inhibiting a protein complex called the NLRP3 inflammasome, which regulates the immune system. Inhibition of the immune system could result in increased

susceptibility to infections. If patients have a known active infection, they will not be included in this study. Participants will be closely monitored for infections to ensure prompt treatment is received.

Impaired response to vaccinations: the NLRP3 inflammasome is activated by many vaccines and it ensures an adequate immune response to vaccination. Therefore, inhibition of the inflammasome may impair the response to vaccination. If participants require a vaccination, these should be completed at least 4 weeks prior to the first dose of study treatment. If participants plan to be vaccinated shortly after completing this study, they should discuss this with the study doctor.

Where is the study run from?

F. Hoffmann-La Roche Ltd (Switzerland)

When is the study starting and how long is it expected to run for?

June 2021 to March 2024

Who is funding the study?

F. Hoffmann-La Roche Ltd (Switzerland)

Who is the main contact?

global-roche-genentech-trials@gene.com

### **Study website**

<https://forpatients.roche.com/en/trials/respiratory-disorder/copd/a-study-to-assess-the-safety-of-ro7486967-in-patients-with-chron.html>

## **Contact information**

### **Type(s)**

Public

### **Contact name**

Dr Clinical Trials

### **Contact details**

Grenzacherstrasse 124

Basel

Switzerland

4070

+41 (0)888 662 6728

global-roche-genentech-trials@gene.com

## **Additional identifiers**

### **EudraCT/CTIS number**

2021-000558-25

### **IRAS number**

### **ClinicalTrials.gov number**

Nil known

## **Secondary identifying numbers**

BP43098, CPMS 50074

# **Study information**

## **Scientific Title**

Phase Ib, randomized, double-blind, placebo-controlled, parallel-group study to assess the safety of selnoflast in participants with chronic obstructive pulmonary disease

## **Study hypothesis**

The aim is to assess the safety profile of selnoflast compared with that of placebo.

## **Ethics approval required**

Old ethics approval format

## **Ethics approval(s)**

1. UK: Approval pending, East of Scotland Research Ethics Service (Ninewells Hospital & Medical School, Tayside Medical Science Centre (TASC), Residency Block, Level 3, George Pirie Way, Dundee, DD1 9SY, UK; +44 (0)1382 383871; tay.eosres@nhs.scot)
2. Germany: Approval pending, Ethik-Kommission der Landesärztekammer Hessen (Hanauer Landstraße 152, 60314 Frankfurt am Main, Germany; no telephone number provided; no email provided)
3. USA: Approved 08/07/2021, Advarra (6100 Merriweather Dr., Suite 600, Columbia, MD 21044, USA; +1 (0)410 884 2900, +1 (0)443 283 1522, +1 (0)206 902 3325; rebecca.fisher@advarra.com, andy.basinger@advarra.com)
4. Israel: Approved 17/10/2021, Ethics Helsinki Committee of Barzilai Medical Center (2 Hahistadrout St., Ashkelon, 7830604, Israel; +972 (0)8 6746369, +972 (0)6745550; kerena@bmc.gov.il, ilmalkam@bmc.gov.il)

## **Study design**

Phase Ib randomized double-blind placebo-controlled parallel-group clinical trial

## **Primary study design**

Interventional

## **Secondary study design**

Randomised controlled trial

## **Study setting(s)**

Hospital

## **Study type(s)**

Treatment

## **Participant information sheet**

Not applicable

## **Condition**

Chronic obstructive pulmonary disease

### **Interventions**

All participants will be centrally assigned to randomized study treatment using an IxRS system. Randomization will be stratified by smoking status (current/former) to obtain an approximately 1:1 ratio between the two treatment arms within each stratum.

Selnoflast: 200 mg by mouth on Days 7, 14, 21, and 28

Placebo: N/A dosage by mouth on Days 7, 14, 21, and 28

### **Intervention Type**

Drug

### **Phase**

Phase I

### **Drug/device/biological/vaccine name(s)**

Selnoflast (RO7486967)

### **Primary outcome measure**

1. Incidence and severity of adverse events (AEs) and serious AEs (SAEs) determined according to National Cancer Institute Common Terminology Criteria for Adverse Events version 5.0 (NCI CTCAE v5.0) and causal relationship of AEs, incidence of SAEs and AEs leading to treatment discontinuation, recorded throughout the study up to 12 weeks

2. Incidence of abnormal laboratory findings

3. Incidence of abnormal vital signs and electrocardiogram (ECG) parameters

Timepoint(s) for 1-3: up to 12 weeks

### **Secondary outcome measures**

1. Pre-bronchodilator (pre-BD) forced expiratory volume in 1 second (FEV1), measured by spirometry

2. Post-bronchodilator (post-BD) FEV1 measured by spirometry

3. Pre-BD FEV1 percentage of predicted measured by spirometry

4. Post-BD FEV1 percentage of predicted measured by spirometry

5. Pre-BD total lung capacity (TLC) measured by body plethysmography

6. Pre-BD residual volume (RV) measured by body plethysmography

7. Pre-BD functional residual capacity (FRC) measured by body plethysmography

8. RV/TLC ratio measured by body plethysmography

9. Pre-BD forced expiratory flow over the middle one half of the FVC (FEF25-75) measured by spirometry

10. Post-BD FEF25-75 measured by spirometry

11. Pharmacokinetic (PK) parameters of selnoflast in blood by PK population analysis

Timepoints for 1-10: Screening (Day -42 to Day -15), Day -14, Day 1, Day 14, Day 28, Day 42, at unscheduled visit, at early termination visit

Timepoints for 11: Day 1, Day 7, Day 14, Day 21, Day 28, at unscheduled visit

### **Overall study start date**

04/06/2021

### **Overall study end date**

22/06/2022

## **Reason abandoned (if study stopped)**

Participant recruitment issue

# **Eligibility**

## **Participant inclusion criteria**

Current inclusion criteria as of 14/06/2022:

1. Between 35 and 75 years of age (inclusive)
2. Participants with  $\geq 12$ -month diagnosis of COPD
3. Radiologic evidence of air trapping at screening based on chest HRCT conducted per imaging acquisition protocol and reviewed by the imaging central reader
4. Extent of emphysema on HRCT at screening is  $< 25\%$
5. GOLD 2020 Grade 2/3, characterized by a post-bronchodilator forced expiratory volume in 1 second (FEV1)/ forced vital capacity (FVC) ratio  $\leq 0.70$  and a post-bronchodilator FEV1 of  $\geq 30\%$  and  $\leq 79\%$  of predicted at screening and with an exacerbation history  $\geq 2$  or  $\geq 1$  leading to hospitalization within the last 12 months
6. COPD assessment test (CAT) score  $\geq 10$  and with a clinical diagnosis of chronic bronchitis, characterized by cough and sputum production on most days for a minimum of 3 months during the last year
7. Participant must have a body mass index (BMI) between 18 and 35 kg/m<sup>2</sup>
8. Abnormal laboratory values high sensitivity CRP (hs-CRP)  $\geq 3$  mg/L at screening and absolute neutrophil count  $\geq 6.0 \times 10^9/L$  in whole blood at screening
9. Vital signs (body temperature, systolic and diastolic blood pressure, pulse rate, and respiratory rate) will be assessed in the sitting position after the subject has rested for at least 3 minutes
10. Unchanged standard regimen of care for  $\geq 4$  weeks prior to screening
11. Ex-smokers with at least a 10-pack year smoking history or current smokers with at least a 10 pack-year smoking history who smoke  $\leq 1$  pack-year on average in the last 3 months as reported at screening
12. Able to perform reliable, reproducible pulmonary function test maneuvers per American Thoracic Society (ATS)/European Respiratory Society (ERS) guidelines
13. Female participants: a female participant is eligible to participate if she is not pregnant, not breastfeeding, and at least one of the following conditions applies: women of non-childbearing potential or women of childbearing potential who agree to remain abstinent or use at least acceptable contraceptive methods during the treatment period and for at least 14 days after the final dose of selnoflast /placebo
14. Male participants: No contraception required for male participants

Previous inclusion criteria:

1. Between 35 and 75 years of age (inclusive)
2. Patients with  $\geq 12$ -month diagnosis of COPD
3. Radiologic evidence of air trapping at screening based on chest HRCT conducted per imaging acquisition protocol and reviewed by the imaging central reader
4. Extent of emphysema on HRCT at baseline is  $< 25\%$
5. GOLD 2020 Grade 2/3, characterized by a post-bronchodilator forced expiratory volume in 1 second (FEV1)/ forced vital capacity (FVC) ratio  $\leq 0.70$  and a post-bronchodilator FEV1 of  $\geq 30\%$  and  $\leq 79\%$  of predicted at screening and with an exacerbation history  $\geq 2$  or  $\geq 1$  leading to hospitalization within the last 12 months
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8. Abnormal laboratory values

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14. Male participants: No contraception required for male participants

### **Participant type(s)**

Patient

### **Age group**

Mixed

### **Sex**

Both

### **Target number of participants**

106

### **Total final enrolment**

1

### **Participant exclusion criteria**

Current exclusion criteria as of 14/06/2022:

1. Any condition or disease detected during the medical interview/physical examination that would render the patient unsuitable for the study, place the patient at undue risk, or interfere with the ability of the patient to complete the study

2. Known active or uncontrolled bacterial, viral, fungal, mycobacterial, or other infection, excluding fungal infection of nail beds, including participants exhibiting symptoms consistent with SARS-CoV-2 within 2 weeks prior to screening

3. Positive polymerase chain reaction (PCR) test for SARS-CoV-2 within 6 weeks prior to Day 1

4. Diagnosis of severe bronchiectasis in chart or history

5. Participants with another concomitant pulmonary disease, including but not exclusive of, interstitial pulmonary fibrosis, sarcoidosis, or other granulomatous or infectious process

6. Participants treated for active asthma within 2 years prior to the screening visit

7. Any COPD exacerbation or upper or lower respiratory tract infection requiring antibiotics, oral steroids, or hospitalization within 2 weeks prior to screening, during the screening period, or during the run-in period

8. Participants requiring long-term oxygen therapy for daytime hypoxemia
9. Participants with a diagnosis of alpha-1 antitrypsin deficiency
10. History of lung transplant or malignancy of any organ system (other than localized basal cell carcinoma of the skin) within the past 5 years
11. Any surgical or medical condition which might significantly alter the absorption, distribution, metabolism, or excretion of drugs, or which may jeopardize the subject in case of participation in the study
12. History of clinically significant ECG abnormalities, or ECG abnormalities at screening
13. Known family history or known presence of long QT syndrome
14. Participant with a history of acute coronary syndrome in 3 months prior to the screening visit
15. Participants with a history of coronary artery bypass surgery or other major vascular surgery within 6 months prior to the screening visit
16. Evidence of urinary obstruction or difficulty in voiding
17. History of any clinically significant hepatic disease or cirrhosis
18. Significant illness not resolved within 2 weeks prior to screening
19. Use of systemic steroids, ICS, theophylline, and phosphodiesterase 4 (PDE4) inhibitors within 4 weeks of screening
20. Vaccines within 4 weeks prior to the first dose
21. Current treatment with medications that are well known to prolong the QT interval
22. Donation or loss of 450 mL or more of blood within 8 weeks prior to initial dosing, or longer if required by local regulation
23. Plasma donation > 150 mL within 7 days prior to first dosing
24. Use of other investigational drugs at the time of enrollment, or within 5 half-lives of enrollment, or within 30 days, whichever is longer; or longer if required by local regulations
25. History of hypersensitivity to the study drugs or to drugs of similar chemical classes or excipients
26. QTcF > 450 ms in male participants and > 470 ms in female participants
27. Liver function test abnormalities at screening. Re-testing during the screening period is possible once. This laboratory assessment may be repeated once during the screening period, if necessary
28. Anemia (hemoglobin levels >10.0 g/dl at screening). This laboratory assessment may be repeated once during the screening period, if necessary
29. Clinical evidence of impaired renal function as indicated by clinically significantly abnormal creatinine or BUN and/or urea values, or abnormal urinary constituents (e.g., albuminuria) at screening. This laboratory assessment may be repeated once during the screening period, if necessary
30. History of immunodeficiency diseases, including a positive HIV (ELISA and Western blot) test result
31. Presence of hepatitis B surface antigen (HBsAg) or positive for total hepatitis B core antibody (HBcAb), or positive hepatitis C by PCR test result at screening or within 3 months prior to starting study treatment
32. History of tuberculosis or a positive Quantiferon Gold test
33. Participants with a known history of noncompliance to medication, or who are unable or unwilling to complete an electronic patient diary (medication adherence platform), or who are unable to demonstrate good medication compliance during the run-in period
34. Inability to comply with all study requirements and demonstrate good medication compliance during the treatment run-in period
35. Participants with any medical or psychological condition that renders the patient unable to understand the nature, scope, and possible consequences of the study
36. Participants with a history of being unable to swallow size 0 capsules
37. History of drug or alcohol abuse within the 12 months prior to dosing, or evidence of such abuse as indicated by the laboratory assays conducted during screening

38. Clinically significant history of psychiatric disorders that preclude understanding or compliance with the protocol
39. Recent (within the last 3 years) and/or recurrent history of autonomic dysfunction

Previous exclusion criteria:

1. Any condition or disease detected during the medical interview/physical examination that would render the patient unsuitable for the study, place the patient at undue risk, or interfere with the ability of the patient to complete the study
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26. QTcF > 450 ms in male participants and > 470 ms in female participants demonstrated by at least two ECGs >30 minutes apart
27. Liver function test abnormalities at screening. Re-testing during the screening period is possible once.
28. Anemia (hemoglobin levels >10.0 g/dl at screening)
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creatinine or BUN and/or urea values, or abnormal urinary constituents (e.g., albuminuria) at screening

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39. Recent (within the last 3 years) and/or recurrent history of autonomic dysfunction

**Recruitment start date**

25/04/2022

**Recruitment end date**

25/04/2022

## **Locations**

**Countries of recruitment**

Germany

Israel

Netherlands

Spain

United Kingdom

United States of America

**Study participating centre**

**IKF Pneumologie**

Frankfurt am Main

Germany

60596

**Study participating centre**  
**Hadassah Medical Center - PPDS**  
PO Box 12000  
Jerusalem  
Israel  
91120

**Study participating centre**  
**Barzilai Medical Center**  
2 Hahistadrout Street  
Ashkelon  
Israel  
7827800

**Study participating centre**  
**IKF Pneumologie**  
Schaumainkai 101-103  
Frankfurt am Main  
Hessen  
Germany  
60596

**Study participating centre**  
**Lungenfachklinik Immenhausen**  
Robert-Koch-Str. 3  
Immenhausen  
Hessen  
Germany  
34376

**Study participating centre**  
**Edith Wolfson Medical Center**  
Ha-Lokhamim St 62, Holon  
Tel-Aviv  
Israel  
58100

**Study participating centre**  
**Shaare Zedek Medical Center**  
12 Shmuel Biet Street

Jerusalem  
Israel  
91031

**Study participating centre**  
**IFG Institut für Gesundheitsförderung GmbH**  
Otto-Nuschke-Str. 2  
Rüdersdorf  
Brandenburg  
Germany  
15562

**Study participating centre**  
**Queen Anne Street Medical Centre**  
18-22 Queen Anne Street  
London  
United Kingdom  
W1G 8HU

**Study participating centre**  
**Kaplan Medical Center**  
Tremona Road  
Mailpoint 24  
Rehovot  
Israel  
76100

**Study participating centre**  
**Sheba Medical Center PPDS**  
2 Sheba Road  
Tel Hashomer  
Israel  
52621

**Study participating centre**  
**Thoraxklinik-Heidelberg gGmbH; Apotheke der Thoraxklinik**  
Röntgenstr. 1 Heidelberg  
Baden-Württemberg  
Germany  
69126

**Study participating centre**  
**IKF Pneumologie Mainz**  
Haifa Allee 24  
Mainz  
Germany  
55128

**Study participating centre**  
**Rabin Medical Center - PPDS**  
39, Jabotinski Street  
Petah Tiqva  
Israel  
49100

**Study participating centre**  
**Paradigm Clinical Research Institute Inc - ClinEdge - PPDS**  
3652 Eureka Way  
Redding  
United States of America  
96001-0172

**Study participating centre**  
**IMIC Inc.**  
18320 Franjo Rd  
Palmetto Bay, FL  
United States of America  
33157

**Study participating centre**  
**Southampton General Hospital**  
Tremona Road  
Mailpoint 24  
Southampton  
United Kingdom  
S016 6YD

**Study participating centre**  
**Legacy Clinical Solutions: Tandem Clinical Research, LLC**  
Clinedge - PPDS

1111 Medical Center Blvd  
Marrero  
United States of America  
70072-3151

**Study participating centre**  
**Atria Clinical Research - Clinedge - PPDS**  
11321 I-30 Suite 308  
Little Rock  
United States of America  
72209

**Study participating centre**  
**Ninewells Hospital - PPDS**  
Ninewells Avenue  
Dundee  
United Kingdom  
DD1 9SY

**Study participating centre**  
**Research Center for Medical Studies RCMS**  
Hohenzollerndamm 2  
Berlin  
Germany  
10717

**Study participating centre**  
**Universitaetsklinikum Giessen und Marburg GmbH; Medizinische Klinik IV und V**  
Gießen  
Germany  
35392

**Study participating centre**  
**KLB Gesundheitsforschung Lubeck GmbH**  
Lübeck  
Germany  
23552

**Study participating centre**

**Praxis Dr med Claus Keller**  
Usinger Str. 5  
Frankfurt  
Germany  
60389

**Study participating centre**  
**RoMed Klinikum Rosenheim**  
Rosenheim  
Germany  
83022

**Study participating centre**  
**Universitätsmedizin der Johannes Gutenberg-Universität Mainz; II. Medizinische Klinik**  
Mainz  
Germany  
55131

**Study participating centre**  
**Soroka University Medical Centre**  
3652 Eureka Way  
Be'er Sheva  
Israel  
84417

**Study participating centre**  
**Universitair Medisch Centrum Groningen**  
GZ Groningen  
Netherlands  
9713

**Study participating centre**  
**Albert Schweitzer Ziekenhuis; Afdeling Longziekten**  
AK Dordrecht  
Netherlands  
3300

**Study participating centre**

**Hospital Universitario Quironsalud Madrid**  
Pozuelo De Alarcón  
Madrid  
Spain  
28223

**Study participating centre**  
**Hospital Universitario Virgen de Las Nieves**  
Granada  
Spain  
18012

**Study participating centre**  
**NIHR Leicester-Loughborough Diet, Lifestyle and Physical Activity Biomedical Research Unit**  
Leicester Royal Infirmary  
Infirmary Square  
Leicester  
United Kingdom  
LE1 5WW

**Study participating centre**  
**Royal Liverpool University Hospital**  
Liverpool  
United Kingdom  
L7 8XP

**Study participating centre**  
**University Hospitals Birmingham NHS Foundation Trust**  
Birmingham  
United Kingdom  
B15 2GW

**Study participating centre**  
**Houston Pulmonary, Sleep & Allergy Associates**  
Cypress, TX  
United States of America  
77429-4696

**Study participating centre**

**Clinical Site Partners - Leesburg**

Suite 101 - HyperCore - PPDS  
Leesburg, FL  
United States of America  
34748-5077

**Study participating centre**

**Clinical Research Associates of Central Pa, Llc**

Altoona, PA  
United States of America  
16602

**Study participating centre**

**Clinical Research of Gastonia**

Gastonia, NC  
United States of America  
28054

**Study participating centre**

**Lundquist Institute for Biomedical Innovation at Harbor-UCLA Medical Center**

Torrance, CA  
United States of America  
90502

**Study participating centre**

**Clinical Research of Rock Hill**

Rock Hill, SC  
United States of America  
29732

**Study participating centre**

**U Health Ball Memorial Physicians Pulmonary & Critical Care Medicine**

Muncie, IN  
United States of America  
47303

**Study participating centre**

**Velocity Clinical Research - Union - ERN - PPDS**

Union, SC

United States of America  
29379

**Study participating centre**  
**Indiana University School of Medicine - Indianapolis**  
Indianapolis, IN  
United States of America  
46202

**Study participating centre**  
**Hannibal Clinic**  
Hannibal, MO  
United States of America  
63401

**Study participating centre**  
**North Florida Foundation For Research and Education, Inc.**  
Florida  
United States of America  
32608

**Study participating centre**  
**Temple Lung Center, Temple University of the Commonwealth System of Higher Education**  
Philadelphia, PA  
United States of America  
19140

**Study participating centre**  
**University of Cincinnati / University of Cincinnati College of Medicine**  
Cincinnati, OH  
United States of America  
45267

## **Sponsor information**

**Organisation**  
Roche (Switzerland)

**Sponsor details**

Grenzacherstrasse 124  
Basel  
Switzerland  
4070  
+41 (0)888 662 6728  
global-roche-genentech-trials@gene.com

**Sponsor type**

Industry

**Website**

global-roche-genentech-trials@gene.com

**ROR**

<https://ror.org/00by1q217>

**Funder(s)****Funder type**

Industry

**Funder Name**

F. Hoffmann-La Roche

**Alternative Name(s)**

Hoffman-La Roche, F. Hoffmann-La Roche Ltd.

**Funding Body Type**

Private sector organisation

**Funding Body Subtype**

For-profit companies (industry)

**Location**

Switzerland

**Results and Publications****Publication and dissemination plan**

Planned publication in a high-impact peer-reviewed journal.

**Intention to publish date**

29/03/2025

### **Individual participant data (IPD) sharing plan**

The datasets generated during and/or analysed during the current study are not expected to be made available due to participant-level data not being a regulatory requirement for Phase I studies.

### **IPD sharing plan summary**

Not expected to be made available