Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

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A Highly Durable RNAi Therapeutic Inhibitor of PCSK9

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Patent reference

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STUDY PERSONNEL

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Affiliation	Title	Name									
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	*Senior Director, Clinical Development/										
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	Associate Director, Biometrics	Brian Bettencourt									
	Clinical Operations Manager, consultant	Suellen White									
The Medicines Company	*Medical Monitor	David Kallend, MBBS									
	*Principal Investigator	Jorg Taubel, MD, FFPM									
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	Lead Study Manager	Eri Yamamoto									
	*Principal Investigator	Ashley Brooks MB, CHB									
	*Study Medical Monitor and Safety Review										
	Committee Chair	David Blowers MBBS, FFPM									
Covance Clinical Research	Project Physician	Chamikara Fernando, MBBS									
Unit, Leeds	Project Manager II: Data Management and										
	Statistical Analyses	Sunee Reiner									
	Drug Safety Project Manager	Parveen Kumar									
	Senior Clinical Project Manager	Joanne Hodson									

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ALN-PCSsc-001 Study Team Organization									
	Committee								
	*Members as noted above include Principal Investigators and Medical Monitors								
Safety Review Committee	from The Medicines Company, Alnylam and Covance. The Covance Medical								
	Monitor was the committee chair.								
	Laboratories								
Central Laboratory	Sample Analysis								
QPS, LLC									
Newark, Delaware, USA	Pharmacokinetic Analysis								
Charles River Laboratories									
Quebec, Canada	PCSK9 Protein Concentration and Cytokine								
Quesce, culluu									
Medpace Reference	β-Quantification of Total Cholesterol and Low-Density Lipoprotein								
Laboratories	Cholesterol								
Leuven, Belgium	Exploratory Lipid Biomarker Analysis								
Liposcience, Inc.	Exploratory lipid biomarker: Lipoprotein Profile (Low-Density								
Raleigh, NC USA	Lipoprotein Particle)								
Local Laboratory	Sample Analysis								
Covance Clinical Pathology	Clinical Safety Laboratory Tests								
Harrogate and Leeds, UK									
The Doctors Laboratory	Clinical Safety Laboratory Tests								
London, UK									

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SELECTION OF STUDY POPULATION

Inclusion Criteria

Inclusion Criteria for All Subjects in the single-dose (SAD) and multiple-dose (MD) Cohorts

To be eligible to participate in the study, all subjects must satisfy the following inclusion criteria.

- Male and female subjects, aged 18 to 60 years, inclusive; subjects in the multiple dose cohorts may be enrolled up to, and including, age 75 (the upper age limit was adjusted to more accurately reflect the target population, to facilitate enrollment, and to provide pharmacodynamics data for the intended target population).
- 2. Body mass index (BMI) between 18 and 30 kg/m², inclusive
- 3. Serum LDL-C \geq 2.6 mmol/L (\geq 100 mg/dL) at screening
- 4. Fasting triglyceride < 4.52 mmol/L (< 400 mg/dL) at screening
- 5. Adequate complete blood counts (CBCs) (if outside the reference range, CBC values that are not clinically relevant and are acceptable to the Investigator)
- 6. Female subjects must be of non-childbearing potential:
 - Natural (spontaneous) post-menopausal defined as amenorrhea for 12 months without an alternative medical cause with a screening follicle stimulating hormone (FSH) level > 25 IU/L (or at the local laboratory levels for postmenopause)

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- Premenopausal with irreversible surgical sterilization by bilateral oophorectomy or bilateral salpingectomy (with or without hysterectomy), but not tubal ligation, or hysterectomy at least 6 months before screening
- 7. Male subjects must use acceptable methods of contraception if the male subject's partner could become pregnant from the time of the first administration of study medication until 90 days following administration of the last dose of study medication. One of the following acceptable methods of contraception must be utilized:
 - Condom and occlusive cap (diaphragm or cervical/vault caps) with spermicidal foam/gel/film/cream/suppository)
 - Surgical sterilization (vasectomy with documentation of azoospermia) and a barrier method (condom or occlusive cap [diaphragm or cervical/vault caps] used with spermicidal foam/gel/film/cream/suppository)
 - The subject's female partner uses oral contraceptives (combination estrogen/progesterone pills), injectable progesterone, or subdermal implants and a barrier method (condom or occlusive cap [diaphragm or cervical/vault caps] used with spermicidal foam/gel/film/cream/suppository)
 - The subject's female partner uses medically prescribed topically-applied transdermal contraceptive patch and a barrier method (condom or occlusive cap [diaphragm or cervical/vault caps] used with spermicidal foam/gel/film/cream/suppository)

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- The subject's female partner has undergone documented tubal ligation (female sterilization). In addition, a barrier method (condom or occlusive cap [diaphragm or cervical/vault caps] used with spermicidal foam/gel/film/cream/suppository) must be used
- The subject's female partner has undergone documented placement of an intrauterine device or intrauterine system. In addition, a barrier method (condom or occlusive cap [diaphragm or cervical/vault caps] with spermicidal foam/gel/film/cream/suppository) must be used
- True abstinence: when this is in line with the preferred and usual lifestyle of the subject. Periodic abstinence (eg, calendar, ovulation, symptothermal, post-ovulation methods) and withdrawal are not acceptable methods of contraception. Abstinent subjects have to agree to use 1 of the above-mentioned contraceptive methods if they start sexual relationships during the study and for up to 90 days after the last dose of study drug.
- Willing to comply with protocol-required visit schedule and visit requirements and provide written informed consent
- 9. Non-smokers and non-nicotine users for at least 90 days before screening

Additional Inclusion Criteria for Subjects in the SAD and Non-statin MD Cohorts

 Healthy as determined by pre-study medical history, physical examination, clinical laboratory assessments, and 12-lead ECG Fitzgerald et al., Supplementary Appendix, Inclisiran in subjects with elevated LDL-C, Page 10 of 55

Additional Inclusion Criteria for Subjects in the Statin MD Cohorts

 On a stable dose of statin medication for ≥ 30 days before screening with no planned dose change during study participation

Exclusion Criteria

To be eligible to participate in the study, all subjects must not satisfy any of the following exclusion criteria.

Exclusion Criteria for All Subjects in the SAD and MD Cohorts

- Any uncontrolled or serious disease, or any medical or surgical condition, that may either interfere with participation in the clinical study, and/or put the subject at significant risk (according to Investigator's judgment) if he/she participates in the clinical study
- 2. An underlying known disease, or surgical or medical condition that, in the opinion of the Investigator, might interfere with interpretation of the clinical study results
- Active serious mental illness or psychiatric disorder, including but not limited to schizophrenia, bipolar disorder, or severe depression requiring current pharmacological intervention
- ALT and/or TBIL above the upper limit of normal (ULN); no Investigator discretion and no repeat assessments are allowed, except where otherwise noted (see Section below for an additional criterion for subjects in the MD cohorts)

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- Aspartate aminotransaminase (AST), alkaline phosphatase (ALP), or gamma glutamyl transferase (GGT) > 2×ULN (no Investigator discretion); or, if AST, ALP, or GGT > ULN, but ≤ 2×ULN and considered clinically relevant by the Investigator
- 6. International normalized ratio (INR) above the upper bound of the normal reference range (as per the local laboratory reference range) at screening
- 7. Used over-the-counter (OTC) medication, excluding routine vitamins, within 7 days before the first dose of study drug, unless determined by the Investigator and Sponsor to be not clinically relevant, and unlikely to impact blood cholesterol level
- 8. Received an investigational agent (inclusive of PCSK9 inhibitors) within 90 days before the first dose of study drug or are in follow-up of another clinical study
- 9. Known hepatitis B surface antigen (HBsAg), hepatitis B virus (HBV), hepatitis C virus (HCV) or human immunodeficiency virus (HIV) infection
- 10. Clinically significant illness within 7 days before the first dose of study drug
- 11. Positive screen for alcohol or drugs of abuse
- 12. Consume more than 14 (female) or 21 (male) units of alcohol per week (unit: 1 glass of wine [125 mL] = 1 measure of spirits = ½ pint of beer)

13. History or clinical evidence of alcohol abuse, within the 12 months before screening. Alcohol abuse is defined as regular weekly intake of more than 21 units for males and 14 units for females (using alcohol tracker at http://www.nhs.uk/Tools/Pages/NHSAlcoholtracker.aspx). Fitzgerald et al., Supplementary Appendix, Inclisiran in subjects with elevated LDL-C, Page 12 of 55

- 14. History or clinical evidence of drug abuse, within the 12 months before screening. Drug abuse is defined as compulsive, repetitive, and/or chronic use of drugs or other substances with or without problems related to their use and/or where stopping or a reduction in dose will lead to withdrawal symptoms.
- 15. Donated more than 500 mL of blood within 90 days before the first dose of study drug
- History of multiple drug allergies or history of allergic reaction to an oligonucleotide or N-acetylgalactosamine (GalNAc)
- History of intolerance to SC injection or relevant abdominal scarring (surgical, burns, etc.)
- 18. Any conditions which, in the opinion of the Investigator, would make the subject unsuitable for enrollment or could interfere with the subject's participation in or completion of the study

Additional Exclusion Criteria for Subjects in the SAD and Non-statin MD Cohorts

- History or presence of cardiovascular disease (including peripheral artery and cerebrovascular disease)
- Systolic blood pressure (SBP) > 140 mmHg and diastolic blood pressure (DBP) > 90 mmHg after 10 minutes supine rest
- 3. Diagnosis of diabetes mellitus
- Received any medication or nutraceutical to alter serum lipids within 30 days before screening

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5. Used prescription drugs within 14 days or 7 half-lives (whichever is longer) before the first dose of study drug, with the exception of hormone replacement therapy

Additional Exclusion Criteria for Subjects in the Statin MD Cohorts

- 1. History or presence of CHD, peripheral artery disease, or cerebrovascular disease
- Uncontrolled hypertension (SBP > 160 mmHg or DBP > 100 mmHg) either on or off antihypertensive treatment on 2 or more occasions before dosing, or controlled BP requiring more than 2 antihypertensive medications
- 3. Insulin-dependent diabetes mellitus
- 4. Used prescription drugs within 14 days or 7 half-lives (whichever is longer) before the first dose of study drug, with the exception of statin medication, allowed antihypertensive medication (maximum of 2 per subject), oral hypoglycemic medication, and hormone replacement therapy
- 5. ALT and/or total bilirubin above the ULN; if ALT and/or total bilirubin is/are elevated at screening, the measurement(s) may be repeated during the screening period and must be within the normal reference range for subject continuation

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PCSK9 ASSAY METHODOLOGY

PCSK9 was measured using a validated ELISA method (Quantikine ELISA PCSK9 kit, Catalog no. DPC900, R&D Systems, Minneapolis, MN) at Charles River Laboratories Montreal ULC, Senneville, QC, Canada. The assay had an analytical lower limit of quantitation (LLOQ) of 0.63 ng/mL, and samples were diluted 1/20 for analysis (giving a 12.6 ng/mL functional LLOQ). The assay intra-assay co-efficient of variation (CV) ranged from 0.4–23.4% CV, while the inter-assay variability ranged from 1.8–11.0% CV across the quality control standards and the lower and upper limits of quantitation. Intraassay accuracy ranged from 93.8 to 118.2%, and inter-assay accuracy ranged from 98.9 to 110.1%.

SUPPLEMENTARY FIGURES

Figure S1. Summary of study design. Panel A, ascending single-dose phase; Panel B, multiple-dose phase.

The starting dose for subjects in SAD Cohort 1 was 25 mg Inclisiran (or placebo). Progression to subsequent SAD dose levels was contingent on SRC review of postdose safety, tolerability, and available PD data from all subjects from the previous cohort(s). Progression from the SAD phase to the first cohort in the MD phase was contingent upon selection of 1 or more doses deemed safe and tolerable following SRC review of postdose safety, tolerability, and available PD data from all subjects in at least the first 3 SAD cohorts. Two dose levels were selected in the MD phase and planned for administration to 2 cohorts; the same dose was administered to subjects in a non-statin cohort and to subjects in a statin cohort. In addition to the planned cohorts (4 SAD and 4 MD cohorts), the protocol permitted the enrollment of up to 2 optional cohorts in both the SAD and MD (either on or off statins co-medication) phases. Three of these 4 optional cohorts were enrolled, including 1 cohort in the SAD phase to expand the 800 mg inclisiran cohort and 2 cohorts in the MD phase that examined alternative dose regimens (weekly [QW] and biweekly [Q2W] regimens) in subjects who were not on statin co-medication. Exploration of alternate dose regimens was permitted per the adaptive design criteria. In both SAD and MD, subjects underwent "Extended PD Follow-up" if at day 84 after the last study treatment, their latest three LDL-C measurements averaged <80% of baseline. That follow-up continued until 180 days after the last study treatment or the

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time when the latest three LDL-C measurements averaged $\geq 80\%$ of baseline, whichever came sooner.

Dosing for QWx4 cohorts: Days 0, 7, 14, 21

Dosing for Q2Wx2 cohort: Days 0 and D14

Dosing for QMx2 cohort: Days 0 and D 28

D = study day, i.e., day relative to day of first study treatment; LDL-C = low-density

lipoprotein cholesterol; PD = pharmacodynamics; SAE = serious adverse events

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Panel A

7 -45 to	Randomization and Treatment (Day 0) ^a	Post-treatment Evaluation ^b	
ing (Day Day -2)	Dose Groups: 25 mg 100 mg	Safety Assessment through Day 56 ^c	Extended PD follow-up to Day 180
Screen	500 mg 800 mg (x2 cohorts)	Pharmacodymanic Assessments	

^a Subjects were admitted to clinic on Day -1, randomized and dosed on Day 0, discharged on Day 1

^b Study Days 1, 2, 4, 7, 14, 21, 28, 35, 42, 56, 70, 84

^c After Day 56, only SAEs were collected

Panel B

-45 to	Randomization and Treatment (Day 0) ^a	Post-treatment Evaluation ^b	Inpatient final dose	Post-treatm Evaluation	ient n ^b	
ing (Day Day -2)	Dose Groups and regimen: 300 mg monthly x2, no statin 300 mg monthly x2, on statin 500 mg monthly x2, no statin	Safety		Extended PD follow-up to Day 180		
Screen	500 mg monthly x2, on statin 125 mg q week x4, no statin 250 mg, q2 weeks x2, no statin	Pharmaco	odymanic Ass	sessments		

^a Subjects were admitted to clinic on Day -1, randomized and dosed on Day 0, discharged on Day 1, for all regimens. ^b Study Days:

- Monthly regimen: Day 2, 4, 7, 14, 21, 27 to 29*, 35, 42, 56, 63, 70, 84, 98, 112

- Weekly regimen: Day 2, 4, 7, 14, 20 to 22*, 28, 35, 49, 56, 63, 77, 91, 105

- Biweekly regimen: Day 2, 4, 7, 13 to 15* 21, 28, 35, 42, 49, 56, 70, 84, 98 *inpatient stay for final dose

^c After Day 70, 77, or 84 for biweekly, weekly, or monthly regimen respectively, only SAEs were collected

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Figure S2. Patient flow through the study phases. Panel A, ascending single-dose

phase; Panel B, multiple-dose phase.

D = study day, i.e., day relative to day of first study treatment; LDL-C = low-density lipoprotein cholesterol; PD = pharmacodynamics;

Panel A



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Panel B



SUPPLEMENTARY TABLES

			Single as	scending do	ose phase		Multiple dose phase									
				Incli	siran			Pla	cebo			Inclisi	ran			
										300 mg	300 mg	500 mg	500 mg	125 mg	250 mg	
										QMx2	QMx2	QMx2	QMx2	QWx4	Q2Wx2	
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg	Ovorall	With	N0 Statin	With	N0 Statin	With	N0 Statin	N0 Statin	N0 Statin	Overall
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)	(n=24)	(n=4)	(n=8)	(n=4)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)	(n=45)
Age, years																
Mean	48	47	48	48	39	49	47	58	51	52	47	56	42	55	61	52
(SD)	(14.2)	(14.2)	(6.2)	(12.7)	(14.0)	(6.7)	(10.7)	(3.0)	(14.2)	(21.6)	(8.7)	(11.5)	(16.1)	(9.4)	(6.3)	(12.7)
Sex, n (%)																
Male	2	3	3	3	3	5	19	2	6	2	6	2	3	4	4	29
	(33.3%)	(100%)	(100%)	(100%)	(100%)	(83.3%)	(79.2%)	(50.0%)	(75.0%)	(50.0%)	(100%)	(40.0%)	(50.0%)	(66.7%)	(66.7%)	(64.4%)
Race, n (%)																
White	4	2	3	1	3	3	16	4	7	3	6	3	5	5	3	36
	(66.7%)	(66.7%)	(100%)	(33.3%)	(100%)	(50.0%)	(66.7%)	(100%)	(87.5%)	(75.0%)	(100%)	(60.0%)	(83.3%)	(83.3%)	(50.0%)	(80.0%)

			Single as	scending do	se phase			Multiple dose phase								
				Incli	siran			Pla	cebo			Inclisi	ran			
										300 mg QMx2	300 mg QMx2	500 mg QMx2	500 mg QMx2	125 mg QWx4	250 mg Q2Wx2	
								With	No	With	No	With	No	No	No	
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg	Overall	Statin	Statin	Statin	Statin	Statin	Statin	Statin	Statin	Overall
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)	(n=24)	(n=4)	(n=8)	(n=4)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)	(n=45)
Black or	2	1	0	1	0	0	4	0	0	0	0	1	0	0	1	2
African	(33.3%)	(33.3%)		(33.3%)			(16.7%)					(20.0%)			(16.7%)	(4.4%)
American																
Asian	0	0	0	1	0	1	2	0	0	1	0	1	1	1	0	4
				(33.3%)		(16.7%)	(8.3%)			(25.0%)		(20.0%)	(16.7%)	(16.7%)		(8.9%)
Other	0	0	0	0	0	2	2	0	1	0	0	0	0	0	2	3
						(33.3%)	(8.3%)		(12.5%)						(33.3%)	(6.7%)
Body weight, kg																
Mean	70.6	84.5	77.3	81.2	71.6	74.0	75.5	74.3	77.6	85.0	77.8	71.9	64.9	73.1	83.2	75.8
(SD)	(12.04)	(2.11)	(6.66)	(11.04)	(7.93)	(6.01)	(9.16)	(5.07)	(10.31)	(22.04)	(15.19)	(11.03)	(7.86)	(7.07)	(8.12)	(12.03)

			Single as	scending do	ose phase			Multiple dose phase								
				Incli	siran			Pla	cebo			Inclisi	ran			
										300 mg	300 mg	500 mg	500 mg	125 mg	250 mg	
										QMx2	QMx2	QMx2	QMx2	QWx4	Q2Wx2	
								With	No	With	No	With	No	No	No	
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg	Overall	Statin	Statin	Statin	Statin	Statin	Statin	Statin	Statin	Overall
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)	(n=24)	(n=4)	(n=8)	(n=4)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)	(n=45)
Height, cm																
Mean	168	175	174	173	175	169	172	168	171	176	175	167	168	167	176	171
(SD)	(10.6)	(2.3)	(5.1)	(9.6)	(3.1)	(5.5)	(7.2)	(10.5)	(9.3)	(12.5)	(7.4)	(11.7)	(5.3)	(6.9)	(10.1)	(9.2)
BMI, kg/m ²																
Mean	24.9	27.7	25.5	27.0	23.4	25.9	25.6	26.5	26.7	27.1	25.2	25.7	23.0	26.2	27.0	25.9
(SD)	(3.17)	(0.21)	(2.10)	(1.29)	(3.01)	(1.60)	(2.39)	(2.72)	(2.64)	(3.59)	(2.95)	(1.97)	(2.34)	(2.72)	(1.93)	(2.72)
LDL-C, mg/dL																
Mean	131.5	177.9	150.8	162.4	119.9	158.5	146.9	143.1	131.5	143.1	143.1	104.4	123.7	139.2	146.9	135.3
(SD)	(19.3)	(50.7)	(35.6)	(36.7)	(17.0)	(28.6)	(32.9)	(89.7)	(20.9)	(30.5)	(20.1)	(19.7)	(49.9)	(18.6)	(14.3)	(35.6)
TG, mg/dL																
Mean	70.9	115.1	177.1	132.9	159.4	115.1	124.0	150.6	124.0	132.9	132.9	97.4	88.6	88.6	159.4	124.0
(SD)	(12.4)	(59.3)	(102.7)	(48.7)	(84.1)	(21.3)	(57.6)	(46.9)	(38.1)	(86.8)	(90.3)	(44.3)	(20.4)	(25.7)	(69.1)	(58.5)

			Single as	cending do	se phase		Multiple dose phase									
				Incli	siran			Plac	cebo			Inclisi	ran			
										300 mg	300 mg	500 mg	500 mg	125 mg	250 mg	
								XX /* / 1	N	QMx2	QMx2	QMx2	QMx2	QWx4	Q2Wx2	
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg	Overall	with Statin	N0 Statin	with Statin	No Statin	Statin	No Statin	No Statin	No Statin	Overall
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)	(n=24)	(n=4)	(n=8)	(n=4)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)	(n=45)
PCSK9																
Mean	278.95	342.65	233.77	253.82	263.23	279.62	276.32	460.69	276.23	460.69	311.47	433.44	288.07	380.03	288.73	348.34
(SD), µg/L	(99.53)	(67.89)	(39.17)	(22.36)	(24.98)	(66.90)	(68.28)	(56.295)	(58.69)	(209.435)	(59.85)	(107.28)	(69.07)	(50.63)	(53.53)	(103.99)
Concomitant	0	0	0	0	0	0	0	4	0	4	0	5	0	0	0	13 ^a
statin use								(100%)		(100%)		(100%)				(28.9%)
ATV	0	0	0	0	0	0	0	0	0	4 ^b	0	3°	0	0	0	7
										(100%)		(60.0%)				(15.6%)
SIM	0	0	0	0	0	0	0	3 ^d	0	0	0	2 ^e	0	0	0	5
								(75.0%)				(40.0%)				(11.1%)
PRV	0	0	0	0	0	0	0	1^{f}	0	0	0	0	0	0	0	1
								(25.0%)								(2.2%)
Amlodipine	0	0	0	0	0	0	0	0	0	1 (25.0%)	0	0	0	0	0	1 (2.2%)

			Single as	cending do	se phase			Multiple dose phase								
				Incli	siran			Plac	ebo		Inclisiran					
										300 mg	300 mg	500 mg	500 mg	125 mg	250 mg	
										QMx2	QMx2	QMx2	QMx2	QWx4	Q2Wx2	
								With	No	With	No	With	No	No	No	
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg	Overall	Statin	Statin	Statin	Statin	Statin	Statin	Statin	Statin	Overall
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)	(n=24)	(n=4)	(n=8)	(n=4)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)	(n=45)
Candesartan	0	0	0	0	0	0	0	0	0	1 (25.0%)	0	0	0	0	0	1 (2.2%)
Perindopril	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
erbumine								(25.0%)								(2.2%)

ATV = atorvastatin; BMI = body mass index; LDL-C = low-density lipoprotein cholesterol; PCSK9 = proprotein convertase subtilisin/kexin type 9; PRV =

pravastatin; SIM = simvastatin; QMx2 = 2 monthly doses; QWx4 = 4 weekly doses; Q2Wx2 = 2 biweekly doses; SD = standard deviation; TG = triglycerides.

To convert values for cholesterol to mmol/L divide by 38.67. To convert values for TG to mmol/L divide by 88.57.

^a11 subjects reported being on statin for approximately 1–9 years, 2 subjects for <4 months before study drug administration

^b2 subjects 40 mg, 1 subject 20 mg, 1 subject 10 mg

^c2 subjects 40 mg, 1 subject 20 mg

^dAll subjects 40 mg

^e1 subject 40 mg, 1 subject 20 mg

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^f1 subject 20 mg

Table S2: Incidence of the most common (≥5% of total inclisiran subjects) treatment-emergent adverse events in the single ascending dose phase by study treatment (Safety population)

		Inclisiran									
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg	Total				
Preferred Term	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)	(N=18)				
At least 1 TEAE, n (%)	2 (33.3%)	2 (66.7%)	1 (33.3%)	1 (33.3%)	1 (33.3%)	4 (66.7%)	9 (50.0%)				
Cough	0	0	1 (33.3%)	0	1 (33.3%)	0	2 (11.1%)				
Musculoskeletal pain	0	1 (33.3%)	0	0	0	1 (16.7%)	2 (11.1%)				
Nasopharyngitis	0	1 (33.3%)	0	1 (33.3%)	0	0	2 (11.1%)				

TEAE = treatment-emergent adverse event.

Table S3: Incidence of the most common (≥ 10% of total inclisiran subjects) of treatment-emergent adverse events in the multiple dose phase by study treatment (Safety population)

		Placebo					Inclisiran			
-				300 mg		500 mg				
				QMx2	300 mg	QMx2	500 mg	125 mg	250 mg	
	With			With	QMx2	With	QMx2	QWx4	Q2Wx2	
Preferred	Statin	No Statin	Total	Statin	No Statin	Statin	No Statin	No Statin	No Statin	Total
Term	(n=4)	(n=8)	(n=12)	(N=4)	(N=6)	(N=5)	(N=6)	(N=6)	(N=6)	(n=33)
At least 1	4 (100%)	5 (62.5%)	9 (75.0%)	3 (75.0%)	2 (33.3%)	5 (100%)	4 (66.7%)	5 (83.3%)	5 (83.3%)	24 (72.7%)
TEAE, n (%)										
Headache	1 (25.0%)	1 (12.5%)	2 (16.7%)	1 (25.0%)	1 (16.7%)	0	2 (33.3%)	1 (16.7%)	1 (16.7%)	6 (18.2%)
Back pain	1 (25.0%)	1 (12.5%)	2 (16.7%)	0	0	1 (20.0%)	3 (50.0%)	1 (16.7%)	0	5 (15.2%)
Diarrhea	1 (25.0%)	2 (25.0%)	3 (25.0%)	1 (25.0%)	0	1 (20.0%)	0	2 (33.3%)	0	4 (12.1%)
Naso-	0	1 (12.5%)	1 (8.3%)	0	0	1 (20.0%)	0	1 (16.7%)	3 (50.0%)	5 (15.2%)
pharyngitis										

QMx2 = 2 monthly doses; QWx4 = 4 weekly doses; Q2Wx2 = 2 biweekly doses; TEAE = treatment-emergent adverse event.

				Inclisiran		
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)
PCSK9						
Day 84						
Mean (SD) percent change	-0.1 (14.3) ^a	-47.3 (7.2) ^b	-29.9 (12.9)	-72.6 (12.1)	-68.7 (9.8)	-72.2 (8.5)
Day 180						
Mean (SD) percent change	NA	NA	-15.7 (0.2) ^b	-47.8 (24.8)	-70.3 (6.6) ^b	-74.3 (13.2) ^c
Mean (SD) percent change at	-29.4 (9.53)	-54.3 (4.75)	-48.9 (27.37)	-77.9 (3.49)	-75.7 (11.75)	-82.3 (4.85)
individual nadir ^d						

Table S4: Mean (SD) percent change from baseline in pharmacodynamic parameters in the single ascending dose phase

(Pharmacodynamic population)

		Inclisiran							
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg			
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)			
Mean (SD) percent change at	-17.5 (19.56)	-51.2 (0.56)	-41.7 (21.28)	-74.0 (0.57)	-77.7 (1.28)	-79.4 (3.27)			
group nadir ^e									
Time to group nadir, days	35	42	42	42	112	98			
LDL-C									
Day 84									
Mean (SD) percent change	-7.5 (15.6) ^a	-27.9 (11.4) ^b	-36.6 (6.1)	-48.4 (19.0)	-47.6 (15.2)	-41.9 (12.3) ^a			

		Inclisiran							
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg			
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)			
Day 180									
Mean (SD) percent change	NA	NA	-26.3 (2.1) ^b	-47.8 (0.5)	-37.9 (21.7) ^b	-35.2 (16.8) ^c			
Mean (SD) percent change at individual nadir ^d	-18.7 (5.61)	-34.5 (8.62)	-42.9 (15.35)	-55.0 (10.03)	-55.1 (19.93)	-59.2 (12.25)			
Mean (SD) percent change at group nadir ^e	-8.6 (18.07)	-27.9 (11.43)	-38.7 (2.07)	-48.4 (18.99)	-55.1 (24.46)	-51.8 (8.44)			
Time to group nadir, days	98	84	140	84	98	35			
Total cholesterol									
Day 84	-1.3 (11.7)	-20.2 (9.4)	-18.2 (10.7)	-30.9 (9.4)	-24.2 (10.2)	-28.1 (11.7)			

		Inclisiran							
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg			
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)			
Day 180	NA	NA	-14.1 (2.9)	-30.5 (5.7)	-23.5 (11.1)	-25.0 (12.2)			
HDL-C									
Day 84	11.7 (14.4)	8.3 (10.3)	19.6 (17.7)	50.5 (71.3)	6.5 (6.4)	1.9 (17.0)			
Day 180	NA	NA	18.1 (26.3)	12.8 (42.5)	-2.8 (2.8)	-0.2 (16.4)			
non-HDL-C									
Day 84	-6.6 (12.2)	-25.5 (11.3)	-28.8 (7.5)	-47.2 (19.2)	-34.1 (12.6)	-36.0 (12.6)			
Day 180	NA	NA	-21.2 (3.6)	-38.0 (12.6)	-29.5 (13.6)	-30.4 (13.4)			

				Inclisiran		
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)
Apolipoprotein B						
Day 84	-10.0 (15.6)	-18.2 (9.7)	-28.1 (15.6)	-45.5 (20.5)	-36.0 (11.7)	-44.5 (11.8)
Day 180	NA	NA	-30.5 (7.6)	-37.6 (12.2)	-29.2 (18.8)	-27.7 (13.6)
Triglycerides						
Day 84	-12.4 (7.9)	-9.0 (19.7)	-9.6 (20.2)	-25.1 (29.2)	15.1 (28.1)	24.6 (48.2)
Day 180	NA	NA	-18.7 (35.5)	45.0 (105.8)	-8.6 (10.1)	-7.4 (23.2)
Lipoprotein (a)						
Day 84	6.7 (25.7)	-2.8 (29.0)	-20.1 (3.5)	-33.8 (46.7)	-30.4 (27.0)	-22.1 (20.8)

Table S4: Mean (SD) percent change from baseline in pharmacodynamic parameters in the single ascending dose phase

(Pharmacodynamic population)

		Inclisiran								
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg				
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)				
Day 180	NA	NA	6.6 (23.7)	-37.9 (35.8)	-31.1 (26.7)	-2.5 (18.9)				

HDL-C = high-density lipoprotein cholesterol; LDL-C = low-density lipoprotein cholesterol; NA = not applicable; PCSK9 = proprotein convertase

subtilisin/kexin type 9; SD = standard deviation.

^an=5

^bn=2

^cn=4

^dIndividual nadir values defined as the largest post-dose percent reduction from baseline value per subject. These values were then summarized.

^eGroup nadir is defined as the largest mean post-dose percent change from baseline value during the study.

				Inclisiran		
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)
PCSK9	NA	NA	-12.7 ^b (-43.3,34.2)	-51.8 (-66.3,-31.2)	-70.1 ^b (-80.6,-53.8)	-75.3 ^c (-81.8,-66.6)
LDL-C	NA	NA	-23.6 ^b (-42.9,2.2)	-47.0 (-58.4,-32.5)	-40.5 ^b (-55.7,-19.9)	-36.4 ^c (-48.3,-21.9)
Total cholesterol	NA	NA	-10.5 ^b (-29.4,13.4)	-30.6 (-41.9,-17)	-26.0 ^b (-41.1,-7.2)	-26.3° (-36.9,-13.9)
HDL-C	NA	NA	13.3 ^b (-25.7,72.7)	2.9 (-27.7,46.6)	6.2 ^b (-32.9,68.1)	-1.0 ^c (-26.3,33)
non-HDL-C	NA	NA	-18.1 ^b (-34.8,2.9)	-37.9 (-48.6,-24.9)	-30.2 ^b (-44.6,-12.1)	-31.4° (-41.6,-19.4)
Apolipoprotein B	NA	NA	-27.0 ^b (-53,13.3)	-38.6 (-54.2,-17.6)	-33.3 ^b (-55.9,0.8)	-28.9 ^c (-44.9,-8.2)
Lipoprotein (a)	NA	NA	3.5 ^b (-47.4,103.9)	-43.7 (-67.3,-3.2)	-34.4 ^b (-66.4,28.1)	-2.8 ^c (-39.8,57.1)

 Table S5: Least-squares mean (LSM) percent change from baseline (95% CI) (baseline-adjusted ANCOVA model) in

 pharmacodynamic parameters at day 180 post dose^a in the single ascending dose phase (Pharmacodynamic population)

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ANCOVA = analysis of covariance; HDL-C = high-density lipoprotein cholesterol; LDL-C = low-density lipoprotein cholesterol; LSM = least-squares mean;

NA = not applicable; PCSK9 = proprotein convertase subtilisin/kexin type 9.

^ap-values were not generated for comparison of values at Day 180

^bn=2

°n=4

Table S6 Mean (SD) percent change from baseline in pharmacodynamic parameters at individual and group nadir in the multiple dose phase (Pharmacodynamic population)

	Pla	cebo		Inclisiran				
	With Statin (n=3)	No Statin (n=8)	300 mg QMx2 With Statin (n=3)	300 mg QMx2 No Statin (n=6)	500 mg QMx2 With Statin (n=5)	500 mg QMx2 No Statin (n=6)	125 mg QWx4 No Statin (n=6)	250 mg Q2Wx2 No Statin (n=6)
PCSK9 Mean (SD) percent change at individual	-42.4 (3.76)	-25.3 (20.51)	-86.1 (2.06)	-80.4 (4.92)	-88.5 (3.67)	-81.5 (5.73)	-83.8 (2.13)	-82.7 (2.81)
nadir ^a Mean (SD) percent change at group nadir ^b	-21.2(8.9)	-6.1 (NC)	-83.6 (4.06)	-73.1 (6.31)	-85.2 (1.83)	-79.9 (5.35)	-80.3 (4.73)	-79.4 (3.83)

Table S6 Mean (SD) percent change from baseline in pharmacodynamic parameters at individual and group nadir in the multiple dose phase (Pharmacodynamic population)

	Plac	ebo			Incli	siran		
			300 mg	300 mg	500 mg	500 mg	125 mg	250 mg
			QMx2	QMx2	QMx2	QMx2	QWx4	Q2Wx2
	With Statin	No Statin	With Statin	No Statin	With Statin	No Statin	No Statin	No Statin
	(n=3)	(n=8)	(n=3)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)
Time to group nadir,	28	91	56	56	84	84	77	35
days								
LDL-C								
Mean (SD) percent	-27.7 (13.19)	-19.2 (9.68)	-53.8 (19.78)	-64.4 (13.22)	-59.9 (18.14)	-56.2 (14.59)	-52.1 (4.75)	-60.4 (11.02)
change at individual								
nadir ^a								
Mean (SD) percent	-18.4 (17.7)	-16.3 (NC)	-46.7 (18.29)	-55.7 (13.20)	-48.9 (23.77)	-51.9 (14.97)	-44.8 (4.07)	-54.8 (7.77)
change at group nadir ^b								

Table S6 Mean (SD) percent change from baseline in pharmacodynamic parameters at individual and group nadir in the

	Plac	ebo		Inclisiran				
			300 mg	300 mg	500 mg	500 mg	125 mg	250 mg
			QMx2	QMx2	QMx2	QMx2	QWx4	Q2Wx2
	With Statin	No Statin	With Statin	No Statin	With Statin	No Statin	No Statin	No Statin
	(n=3)	(n=8)	(n=3)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)
Time to group nadir,	35	105	70	70	140	140	63	49
davs								

multiple dose phase (Pharmacodynamic population)

LDL-C = low-density lipoprotein cholesterol; PCSK9 = proprotein convertase subtilisin/kexin type 9; QMx2 = 2 monthly doses; QWx4 = 4 weekly doses;

Q2Wx2 = 2 biweekly doses; SD = standard deviation.

^aIndividual nadir values defined as the largest post-dose percent reduction from baseline value per subject. These values were then summarized.

^bGroup nadir is defined as the largest mean post-dose percent change from baseline value during the study.

Table S7: Least-squares mean (LSM) percent change from baseline (95% CI) (baseline-adjusted ANCOVA model) in pharmacodynamic parameters at day 196 post first dose in the multiple dose phase (Pharmacodynamic population)

	Placebo		Inclisiran							
	(pooled for statin and no statin) (n=11)	300 mg QMx2 With Statin (n=3)	300 mg QMx2 No Statin (n=6)	500 mg QMx2 With Statin (n=5)	500 mg QMx2 No Statin (n=6)	125 mg QWx4 No Statin ^a (n=6)	250 mg Q2Wx2 No Statin ^a (n=6)			
PCSK9	NA	-73.5 ^b	-67.7	-77.6 ^c	-79.2	-71.6	-70.2			
		(-81.9,-61.1)	(-74.2,-59.7)	(-83,-70.6)	(-83.4,-74.1)	(-77.2, -64.5)	(-76.1,-62.8)			
LDL-C	NA	-40.3 ^b	-47.2	-50.2 ^c	-45.5	-38.4	-44.0			
		(-64.2,-0.3)	(-60.7,-29.1)	(-65.3,-28.6)	(-59.4,-27)	(-50.4,-23.6)	(-58.5,-24.5)			
Total cholesterol	NA	-19.9 ^b	-30.3	-27.4 ^c	-24.6	-22.0	-27.3			
		(-33.4,-3.6)	(-37.6,-22.1)	(-36.7,-16.8)	(-32.6,-15.6)	(-30.3,-12.8)	(-35,-18.8)			

	Placebo		Inclisiran							
	(pooled for statin and no statin) (n=11)	300 mg QMx2 With Statin (n=3)	300 mg QMx2 No Statin (n=6)	500 mg QMx2 With Statin (n=5)	500 mg QMx2 No Statin (n=6)	125 mg QWx4 No Statin ^a (n=6)	250 mg Q2Wx2 No Statin ^a (n=6)			
HDL-C	NA	10.5 ^b	-3.3	8.2 ^c	3.9	4.4	9.3			
		(-4.3,27.5)	(-11,5.2)	(-2.3,19.8)	(-4.4,12.9)	(-3.9,13.5)	(0.5,18.7)			
non-HDL-C	NA	-29.2 ^b	-38.6	-42.2 ^c	-37.7	-33.2	-38.2			
		(-45.7,-7.7)	(-47.7,-27.9)	(-52.5,-29.7)	(-47,-26.8)	(-43.1,-21.5)	(-47.3,-27.4)			
Apolipoprotein B	NA	-24.8 ^b	-36.1	-39.5 ^c	-31.4	-28.0	-38.2			
		(-42.4,-1.7)	(-45.5,-25.1)	(-50.1,-26.5)	(-41.5,-19.6)	(-38.6,-15.7)	(-47.2,-27.5)			
Lipoprotein (a)	NA	-18.3 ^b	-12.9	-32.0 ^c	-17.0	-10.8	-29.8			
F (F (1))		(-45.7,22.9)	(-31.9,11.5)	(-50.9,-5.9)	(-34.5,5.2)	(-32.9,18.5)	(-40.2,-17.7)			

 Table S7: Least-squares mean (LSM) percent change from baseline (95% CI) (baseline-adjusted ANCOVA model) in

 pharmacodynamic parameters at day 196 post first dose in the multiple dose phase (Pharmacodynamic population)

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ANCOVA = analysis of covariance; CI= confidence interval; HDL-C = high-density lipoprotein cholesterol; LDL-C = low-density lipoprotein cholesterol; LSM = least-squares mean; NA = not applicable; PCSK9 = proprotein convertase subtilisin/kexin type 9; QMx2 = 2 monthly doses; QWx4 = 4 weekly doses; Q2Wx2 = 2 biweekly doses.

^aDay 189 for 125 mg QWx4 group and day 194 for 250 mg Q2Wx2 group; 196 days post first dose for all dose regimens; p-values were not generated for comparison of values at Day 196 post-dose

^bn=2

°n=4

				Inclisiran		
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)
LDL-C						
Baseline						
Mean (SEM), mg/dL	142.3 (11.4)	184.1 (27.0)	162.0 (16.1)	173.6 (29.5)	135.3 (3.3)	161.6 (10.2)
Day 84						
Mean (SEM), mg/dL	137.3 (13.4) ^a	147.7 (0.4) ^b	101.3 (5.0)	91.6 (11.4)	70.8 (11.9)	137.3 (21.4) ^a
Day 180						
Mean (SEM), mg/dL	NA	NA	130.7 (2.3) ^b	90.5 (15.3)	64.2 ^c *	105.6 (15.3) ^d

		Inclisiran							
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg			
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)			
At group nadir ^a									
Mean (SEM), mg/dL	118.3 (2.9) ^b	147.7 (0.4) ^b	108.7 (1.5) ^b	89.3 (21.4)	62.6 (24.6) ^b	77.7 (7.3)			
Total cholesterol									
Baseline									
Mean (SEM), mg/dL	216.9 (15.9)	266.4 (31.1)	244.8 (20.6)	242.1 (18.7)	222.7 (6.2)	237.0 (10.2)			
Day 84									
Mean (SEM), mg/dL	223.1 (18.8) ^a	230.9 (4.6) ^b	198.0 (6.1)	166.3 (12.2)	167.8 (8.8)	179.0 (10.9)			

		Inclisiran						
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg		
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)		
Day 180								
Mean (SEM), mg/dL	NA	NA	224.3 (12.0) ^b	167.0 (9.1)	172.9 (11.6) ^b	177.2 (15.0) ^d		
Non-HDL-C								
Baseline								
Mean (SEM), mg/dL	157.8 (11.1)	214.2 (34.8)	194.9 (28.1)	201.1 (25.0)	165.5 (11.1)	186.4 (11.1)		
Day 84								
Mean (SEM), mg/dL	153.1 (14.5) ^a	177.5 (7.9) ^b	137.3 (16.7)	106.3 (24.9)	107.5 (5.6)	117.9 (9.8)		

				Inclisiran		
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)
Day 180						
Mean (SEM), mg/dL	NA	NA	173.0 (25.1) ^b	123.7±17.1	120.0 (6.6) ^b	131.9 (11.8) ^d
HDL-C						
Baseline						
Mean (SEM), mg/dL	59.6 (5.3)	52.2 (4.3)	49.9 (7.8)	41.0 (9.3)	57.2 (4.9)	50.7 (3.6)
Day 84						
Mean (SEM), mg/dL	70.0 (6.6) ^a	53.8 (3.5) ^b	60.7 (12.8)	59.6 (15.7)	60.3 (3.2)	51.4 (4.6)
Day 180						

				Inclisiran		
	Placebo	25 mg	100 mg	300 mg	500 mg	800 mg
	(n=6)	(n=3)	(n=3)	(n=3)	(n=3)	(n=6)
Mean (SEM), mg/dL	NA	NA	51.0 (13.1) ^b	43.7 (8.4)	52.2 (5.0) ^b	45.2 (3.8) ^d
Apolipoprotein B						
Baseline						
Mean (SEM), mg/dL	96.0 (8.7)	132.0 (19.3)	131.0 (21.7)	125.0 (13.9)	101.6 (6.3)	121.0 (6.3)
Day 84						
Mean (SEM), mg/dL	92.0 (10.4) ^a	118.0 (9.0) ^b	91.0 (11.1)	67.0 (13.5)	64.0 (3.5)	75.0 (3.4)
Day 180						
Mean (SEM), mg/dL	NA	NA	105.0 (20.0) ^b	78.0 (12.4)	74.0 (8.5) ^b	88.0 (5.6) ^d

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HDL-C = high-density lipoprotein cholesterol; LDL-C = low-density lipoprotein cholesterol; Non-HDL-C = non-high-density lipoprotein cholesterol (total cholesterol – HDL-C); SEM = standard error of the mean.

^an=5

^bn=2

°n=1

^dn=4

Baseline comprises the average of all measurements before the first study treatment. For subsequent measurement times, where only one measurement is available, that measurement is presented; where only two are available, they are presented as a minimum-maximum range.

Where no data are given, subjects no longer met protocol criteria for extended pharmacodynamic follow up.

To convert values for cholesterol to mmol/L divide by 38.67; to convert values for apolipoprotein B to g/L divide by 100.

* SEM not calculated due to insufficient sample size.

	Plac	ebo			Incli	siran		
			300 mg	300 mg	500 mg	500 mg		250 mg
			QMx2	QMx2	QMx2	QMx2	125 mg QWx4	Q2Wx2
	With Statin	No Statin	With Statin	No Statin	With Statin	No Statin	No Statin	No Statin
	(n=3)	(n=8)	(n=3)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)
LDL-C								
Baseline								
Mean (SEM), mg/dL	152.0 (41.6)	134.2 (9.2)	146.2 (13.7)	145.8 (12.9)	131.5 (11.2)	131.9 (20.2)	150.4 (7.6)	129.5 (10.2)
Day 84 ^a								
Mean (SEM), mg/dL	150.8 (43.8)	111.8 (4.8) ^b	81.2 (8.7)	61.9 (10.2)	65.4 (10.5)	68.4 (18.5)	93.2 (8.4)	65.0 (11.0)
Day 196 ^c								
Mean (SEM), mg/dL	NA	NA	94.4 (6.0) ^d	80.0 (10.3)	66.5 (15.1) ^e	75.0 (17.9)	94.4 (9.3)	77.0 (13.5)

	Placebo				Inclisiran			
			300 mg	300 mg	500 mg	500 mg		250 mg
			QMx2	QMx2	QMx2	QMx2	125 mg QWx4	Q2Wx2
	With Statin	No Statin	With Statin	No Statin	With Statin	No Statin	No Statin	No Statin
	(n=3)	(n=8)	(n=3)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)
At group nadir								
Mean (SEM), mg/dL	NA	89.3 ^f *	75.0 (10.1)	63.4 (9.2)	60.3 (17.4)	65.7 (17.4)	83.5 (5.9)	59.6 (7.9)
Total cholesterol								
Baseline								
Mean (SEM), mg/dL	237.4 (52.6)	220.4 (11.3)	227.0 (22.3)	219.6 (13.5)	214.6 (15.8)	206.5 (16.7)	243.2 (10.0)	227.4 (11.2)
Day 84 ^a								
Mean (SEM), mg/dL	240.9 (49.0)	192.6 (9.4) ^b	168.6 (4.8)	132.6 (11.4)	152.0 (14.5)	152.7 (14.6)	183.7 (10.6)	149.7 (10.7)

	Placebo				Inclisiran			
			300 mg	300 mg	500 mg	500 mg		250 mg
			QMx2	QMx2	QMx2	QMx2	125 mg QWx4	Q2Wx2
	With Statin	No Statin	With Statin	No Statin	With Statin	No Statin	No Statin	No Statin
	(n=3)	(n=8)	(n=3)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)
Day 196 ^c								
Mean (SEM), mg/dL	NA	NA	171.7 (13.5) ^d	154.7 (12.8)	148.9 (18.3) ^e	158.2 (15.5)	188.7 (11.9)	166.3 (13.2)
Non-HDL-C								
Baseline								
Mean (SEM), mg/dL	190.6 (53.6)	160.9 (12.1)	172.9 (29.0)	171.7 (12.6)	149.7 (10.9)	145.8 (20.0)	182.1 (11.4)	174.8 (11.8)
Day 84 ^a								
Mean (SEM), mg/dL	50.5 (87.4)	138.4 (8.2) ^b	108.3 (6.4)	77.3 (11.6)	82.4 (9.3)	85.1 (19.3)	115.6 (11.1)	96.3 (8.9)

	Placebo				Inclisiran				
			300 mg	300 mg	500 mg	500 mg		250 mg	
			QMx2	QMx2	QMx2	QMx2	125 mg QWx4	Q2Wx2	
	With Statin	No Statin	With Statin	No Statin	With Statin	No Statin	No Statin	No Statin	
	(n=3)	(n=8)	(n=3)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)	
Day196 ^c									
Mean (SEM), mg/dL	NA	NA	123.4 (14.9) ^d	107.9 (12.7)	84.7 (13.7) ^e	95.1 (19.5)	124.9 (16.3)	109.4 (11.4)	
HDL-C									
Baseline									
Mean (SEM), mg/dL	46.8 (2.9)	59.2 (5.6)	54.1 (10.0)	48.0 (4.5)	65.0 (6.8)	60.7 (7.8)	61.1 (9.6)	52.6 (7.2)	
Day 84 ^a									
Mean (SEM), mg/dL	51.4 (1.8)	54.1 (7.7) ^b	59.9 (10.4)	55.3 (7.3)	69.2 (10.2)	67.7 (8.0)	68.1 (10.2)	53.4 (3.1)	

	Placebo				Inclisiran				
			300 mg	300 mg	500 mg	500 mg		250 mg	
			QMx2	QMx2	QMx2	QMx2	125 mg QWx4	Q2Wx2	
	With Statin	No Statin	With Statin	No Statin	With Statin	No Statin	No Statin	No Statin	
	(n=3)	(n=8)	(n=3)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)	
Day 196 ^c									
Mean (SEM), mg/dL	NA	NA	48.7 (1.5) ^d	47.2 (4.7)	64.6 (6.3) ^e	63.0 (8.4)	63.8 (9.9)	56.8 (6.0)	
Apolipoprotein B									
Baseline									
Mean (SEM), mg/dL	119.0 (32.0)	96.0 (7.0)	111.0 (18.6)	113.0 (7.7)	87.0 (5.1)	93.0 (10.1)	108.0 (7.0)	96.0 (8.1)	
Day 84 ^a									
Mean (SEM), mg/dL	110.0 (29.3)	82.0 (5.5) ^b	68.0 (4.5)	55.0 (7.0)	52.0 (5.3)	52.0 (10.0)	72.0 (5.5)	54.0 (7.9)	

Table S9 Mean (SEM) absolute lipid level (mg/dL) over the follow-up period of the multiple dose phase by study treatment

(Pharmacodynamic population)

	Plac	ebo			Incli	siran		
			300 mg	300 mg	500 mg	500 mg		250 mg
			QMx2	QMx2	QMx2	QMx2	125 mg QWx4	Q2Wx2
	With Statin	No Statin	With Statin	No Statin	With Statin	No Statin	No Statin	No Statin
	(n=3)	(n=8)	(n=3)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)
Day 196 ^c								
Mean (SEM), mg/dL	NA	NA	86.0 (14.5) ^d	74.0 (7.8)	57.0 (8.5) ^e	66.0 (11.0)	79.0 (7.9)	63.0 (9.9)
HDL-C = high-density lip	oprotein choleste	rol; $LDL-C = lc$	w-density lipoprot	tein cholesterol;	Non-HDL- $C = nc$	on-high-density	lipoprotein cholester	rol (total
cholesterol – HDL-C); QM	1x2 = 2 monthly of	doses; QWx4 =	4 weekly doses; Q	2Wx2 = 2 biwee	ekly doses; SEM =	standard error	of the mean.	
Baseline comprises the ave	erage of all measu	rements before	the first study trea	tment.				
Where no data are given, s	ubjects no longer	met protocol cr	iteria for extended	pharmacodynar	nic follow up.			
^a Day 91 for 125 mg QWx ²	f group;; 84 days	post first dose f	or all other dose re	egimens				
^b n=6								
°Day 189 for 125 mg QWx	4 group and day	194 for 250 mg	Q2Wx2 group; 19	6 days post first	dose for all other	dose regimens;		
^d n=2								

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^en=4

fn=1

* SEM not calculated due to insufficient sample size.

To convert values for cholesterol to mmol/L divide by 38.67; to convert values for apolipoprotein B to g/L divide by 100.

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Patent Reference

Inclisiran is described in US Patent Application Publication Number US2016/0017335 (PCSK9 iRNA COMPOSITIONS AND

METHODS OF USE THEREOF) and is listed as sequence AD-60212.