

Supplementary Materials

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Supplementary Table S1 Glycated hemoglobin (HbA1c) distribution at baseline and subgroup efficacy analysis (change in HbA1c from baseline at week 26 per baseline HbA1c)

	Placebo	E5/S100	E15/S100
Baseline HbA1c ≤ median HbA1c (9.0% [75 mmol/mol])	n = 46	n = 53	n = 49
HbA1c distribution at baseline, % (mmol/mol)	8.3 (67.0)	8.3 (67.2)	8.3 (67.7)
LS mean change from baseline at week 26, % (95% CI)	-0.0 (-0.4, 0.3)	-1.4 (-1.7, -1.1)	-1.3 (-1.6, -1.0)
<i>LS mean change from baseline at week 26, mmol/mol (95% CI)</i>	-0.3 (-3.9, 3.3)	-15.5 (-18.6, -12.4)	-14.2 (-17.4, -11.0)
Difference in LS mean change vs. placebo, % (95% CI)	-	-1.4 (-1.8, -1.0)	-1.3 (-1.7, -0.8)
<i>Difference in LS mean change vs. placebo, mmol/mol (95% CI)</i>	-	-15.2 (-20.0, -10.5)	-13.9 (-18.7, -9.1)
Baseline HbA1c > median HbA1c (9.0% [75 mmol/mol])	n = 39	n = 44	n = 43
HbA1c distribution at baseline, % (mmol/mol)	9.8 (83.1)	9.6 (81.8)	9.8 (83.1)
LS mean change from baseline at week 26, % (95% CI)	-1.0 (-1.4, -0.6)	-1.8 (-2.1, -1.5)	-2.2 (-2.5, -1.9)
<i>LS mean change from baseline at week 26, mmol/mol (95% CI)</i>	-10.9 (-15.0, -6.7)	-19.7 (-23.2, -16.2)	-24.3 (-27.8, -20.8)
Difference in LS mean change vs. placebo, % (95% CI)	-	-0.8 (-1.3, -0.3)	-1.2 (-1.7, -0.7)
<i>Difference in LS mean change vs. placebo, mmol/mol (95% CI)</i>	-	-8.9 (-14.3, -3.4)	-13.4 (-18.8, -8.0)

CI confidence interval *E* ertugliflozin *LS* least squares *S* sitagliptin

Supplementary Table 2 Additional secondary efficacy endpoints at week 26^a

	Placebo	E5/S100	E15/S100
Glycemic rescue medication	<i>n</i> = 97	<i>n</i> = 98	<i>n</i> = 96
Number of patients, <i>n</i> (%)	31 (32.0)	6 (6.1) ^b	0 (0.0) ^b
HOMA-β, %	<i>n</i> = 90	<i>n</i> = 97	<i>n</i> = 96
LS mean change from baseline (95% CI)	4.1 (−1.7, 10.0)	20.6 (15.7, 25.5)	24.3 (19.4, 29.1)
Pairwise comparison vs. placebo, difference in LS means (95% CI)	–	16.5 (9.1, 23.9) ^b	20.1 (12.7, 27.6) ^b
Insulinogenic index, ng/mL per mg/dL	<i>n</i> = 90	<i>n</i> = 97	<i>n</i> = 95
LS mean change from baseline (95% CI)	0.0 (−0.02, 0.03)	0.02 (0.00, 0.04)	0.03 (0.01, 0.05)
Pairwise comparison vs. placebo, difference in LS means (95% CI)	–	0.02 (−0.01, 0.05)	0.03 (−0.00, 0.06)
Patients with HbA1c <6.5% (<48 mmol/mol)	<i>n</i> = 96	<i>n</i> = 98	<i>n</i> = 96
Number of patients, <i>n</i> (%)	4 (4.2)	25 (25.5)	17 (17.7)
Adjusted odds ratio relative to placebo (95% CI)	–	12.3 (3.2, 46.9) ^b	8.1 (2.1, 31.1) ^c

^aThese secondary efficacy analyses were not included in the ordered testing procedure and nominal *p* values are provided for descriptive purposes only; ^b*p* < 0.001 vs.

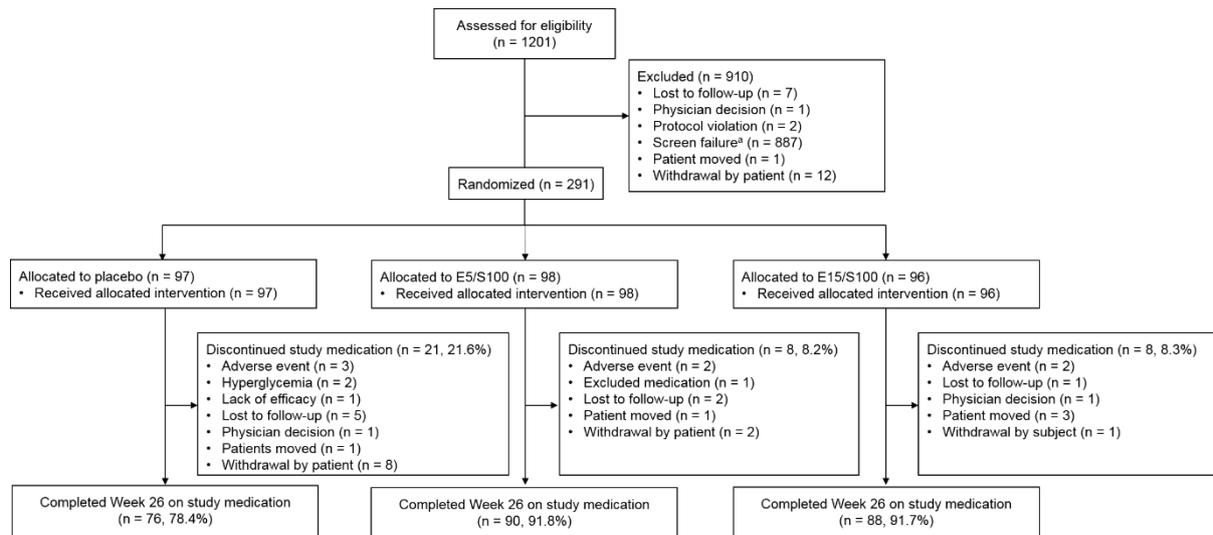
placebo; ^c*p* = 0.002 vs. placebo. *CI* confidence interval *E* ertugliflozin *HbA1c* glycated hemoglobin *HOMA-β* homeostasis model assessment of β-cell function *LS* least squares *S* sitagliptin.

Supplementary Table S3 Percent change in low-density lipoprotein cholesterol (LDL-C) and high-density lipoprotein cholesterol (HDL-C) from baseline at week 26

	Placebo	E5/S100	E15/S100
LDL-C	<i>n</i> = 68	<i>n</i> = 86	<i>n</i> = 86
LS mean percent change from baseline (95% CI)	2.9 (−3.5, 9.2)	10.6 (4.9, 16.3)	10.1 (4.4, 15.8)
Pairwise comparison vs. placebo, difference in LS means (95% CI)	–	7.7 (−0.6, 16.1)	7.2 (−1.1, 15.6)
HDL-C	<i>n</i> = 68	<i>n</i> = 86	<i>n</i> = 88
LS mean percent change from baseline (95% CI)	3.6 (−0.3, 7.5)	9.3 (5.8, 12.7)	8.2 (4.8, 11.6)
Pairwise comparison vs. placebo, difference in LS means (95% CI)	–	5.7 (0.5, 10.9)	4.6 (−0.5, 9.8)

CI confidence interval *E* ertugliflozin *LS* least squares *S* sitagliptin

Supplementary Fig. S1 Patient disposition



E ertugliflozin S sitagliptin

^aThe most common reasons for screen failure were not meeting the inclusion criteria for HbA1c at Visit 1 relative to a patient's category of background diabetes therapy, and having exclusionary laboratory values.