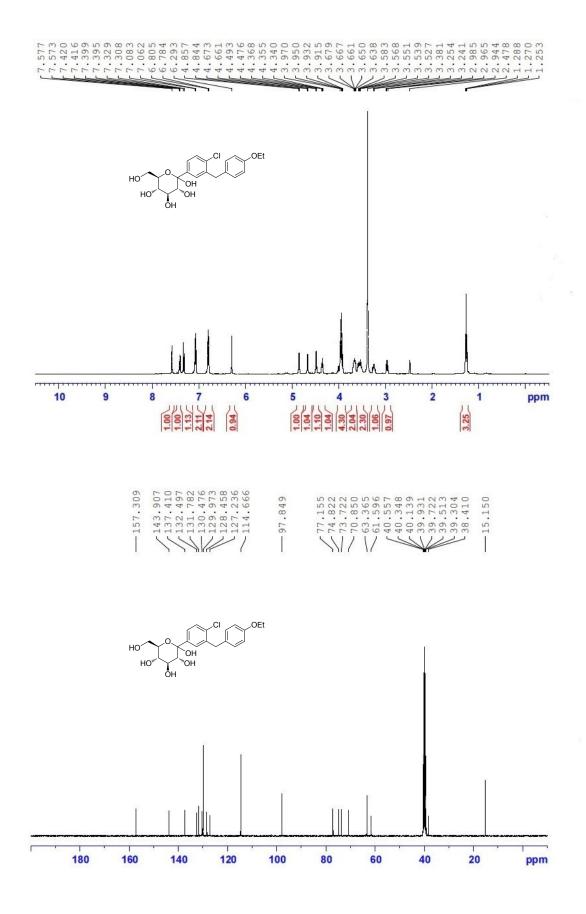
Supporting Information

A Concise and Efficient Synthesis of Dapagliflozin

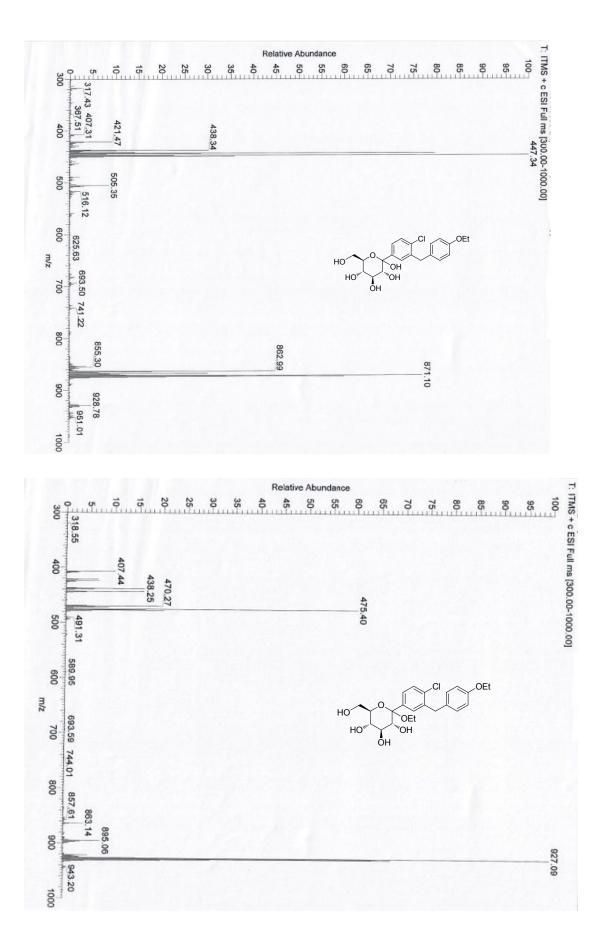
Jun Yu*, Ying Cao, HaiZhou Yu and JinJia Wang

The Research Academy of Jiangsu Hansoh Pharmaceutical Co., LTD, Dongjin Road, Huaguoshan Avenue, Lianyungang, Jiangsu, 222069, P. R. China.

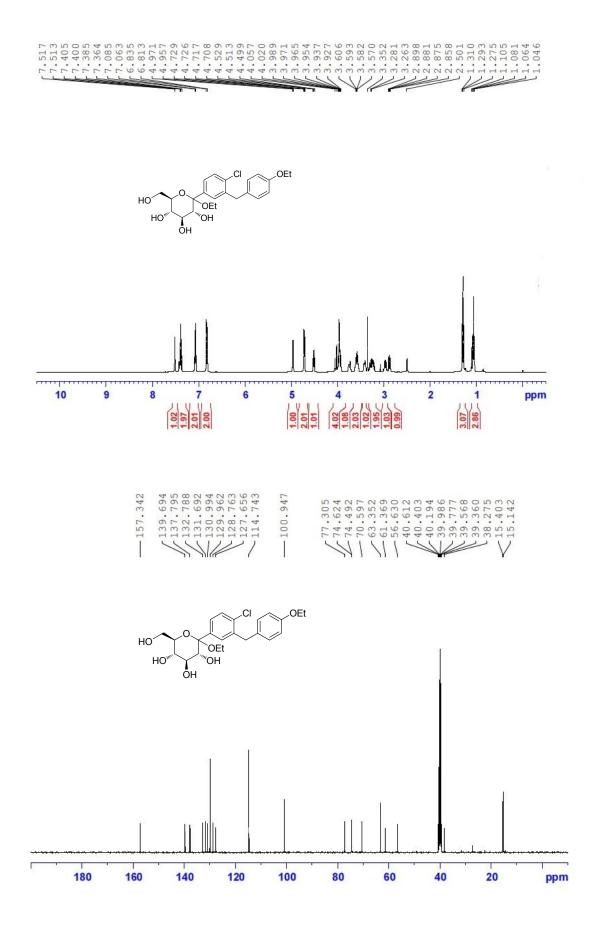
¹ H NMR and ¹³ C NMR spectra for Compound 8	S2
Mass spectra for Compound 8 and Compound 9	S 3
¹ H NMR and ¹³ C NMR spectra for Compound 9	S4
¹ H NMR and ¹³ C NMR spectra for Compound 1	S5
IR and Mass spectra for Compound 1	S6
IR and Mass spectra for Compound 1 DSC spectra for Compound 1	S6 S7

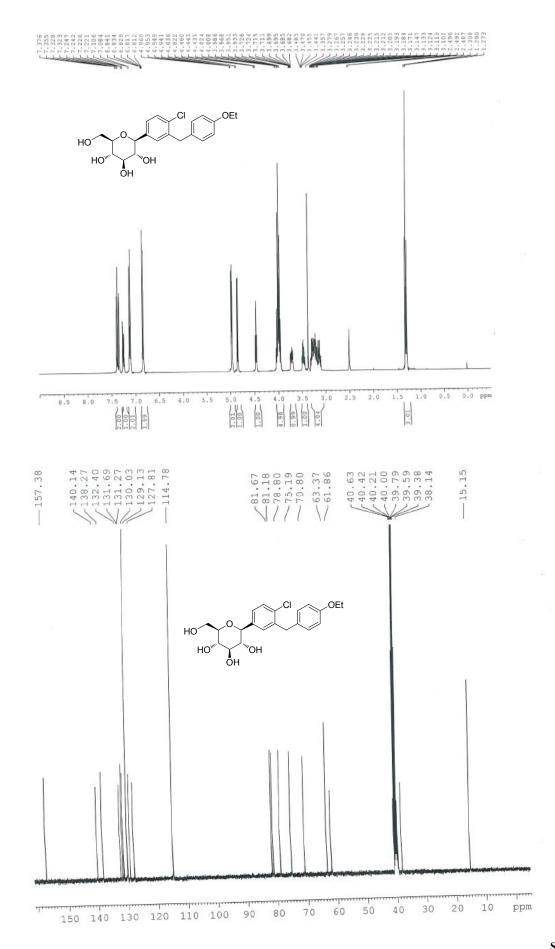


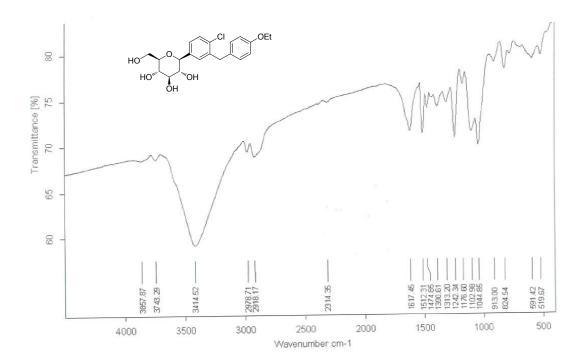
S2



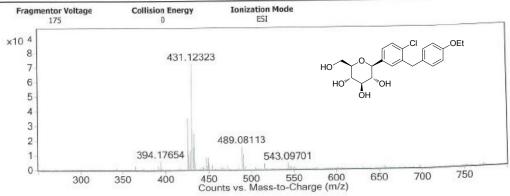
S3

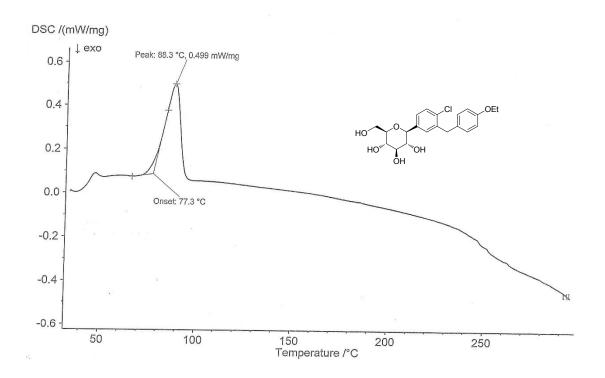












The HPLC condition of compound 9 was showed as below

	Octylsilane bounding silica gel as for filler (Phenomenex			
Column:	kinetex C ₈ , 4.6 mm \times 100 mm, 2.6 μ m or other columns with			
	similar column efficiency)			
Flow Rate:	1.0 mL/min			
Detector:	UV 220 nm			
Column	20°C			
Temperature:	20°C			
Injection Volume:	5 μL			

Solution A: Weigh accurately 0.5 mL of trifluoroacetic acid to 1000 mL of water, filter and degas.

Solution B: Weigh accurately 0.5 mL of trifluoroacetic acid to 800 mL of acetonitrile, add 200 mL of methanol, mix well, filter and degas.

TIME (MIN)	SOLUTION A (%)	SOLUTION B (%)
0	70	30
23	25	75
28	10	90
33	10	90
35	70	30
40	70	30

Mobile phase: the gradient procedure is as follows:

This is only apparent purity (area %).

The HPLC condition of compound 1 was showed as below

Column:	Five fluorinated phenyl bonded silica gel as filler (Phenomenex Kinetex F5, 4.6 mm \times 100 mm, 2.6 μ m or other columns with the similar polarity)
Flow rate:	1.5 mL/min
Detector:	220 nm
Column temperature:	55°C
Injection volume:	5 μL

Solution A: Weigh 2.7 g of monopotassium phosphate, dissolve and dilute

with water to 1000 mL. Adjust the pH of solution to 3.0, mix well. Filter and

degas.

Solution B: Acetonitrile.

Mobile phase: the gradient procedure is as follows:

TIME (MIN)	SOLUTION A (%)	SOLUTION B (%)
0	85	15
25	60	40
38	20	80
43	85	15
48	85	15

This is only apparent purity (area %).