

**Table S1. UPLC-MS/MS conditions.** The UPLC-MS/MS conditions to determine sphingosine-1-phosphate (S1P) amounts.

<b>Compounds</b>	<b>Retention Time</b>	<b>Detection Conditions</b>	<b>Elution Condition</b>		
<b>S1P</b>	4.14 [min]	Parent Mass : 380.38 Daughter Mass : 264.22 Cone Voltage : 20V Collision Energy : 15V	<b>Solvent A</b> : water with 0.1% formic acid		
			<b>Solvent B</b> : Acetonitrile with 0.1% formic acid		
			<b>Flow Rate</b> : 0.3 [mL/min]		
<b>Pioglitazone (internal standard)</b>	3.01 [min]	Parent Mass : 357.15 Daughter Mass : 134.0 Cone Voltage : 28V Collision Energy : 16V	<b>Elution Method</b>		
			Time	Solvent A	Solvent B
			[min]	[%]	[%]
			0	100	0
			1	100	0
			3.5	2	98
			5.0	2	98
5.1	100	0			