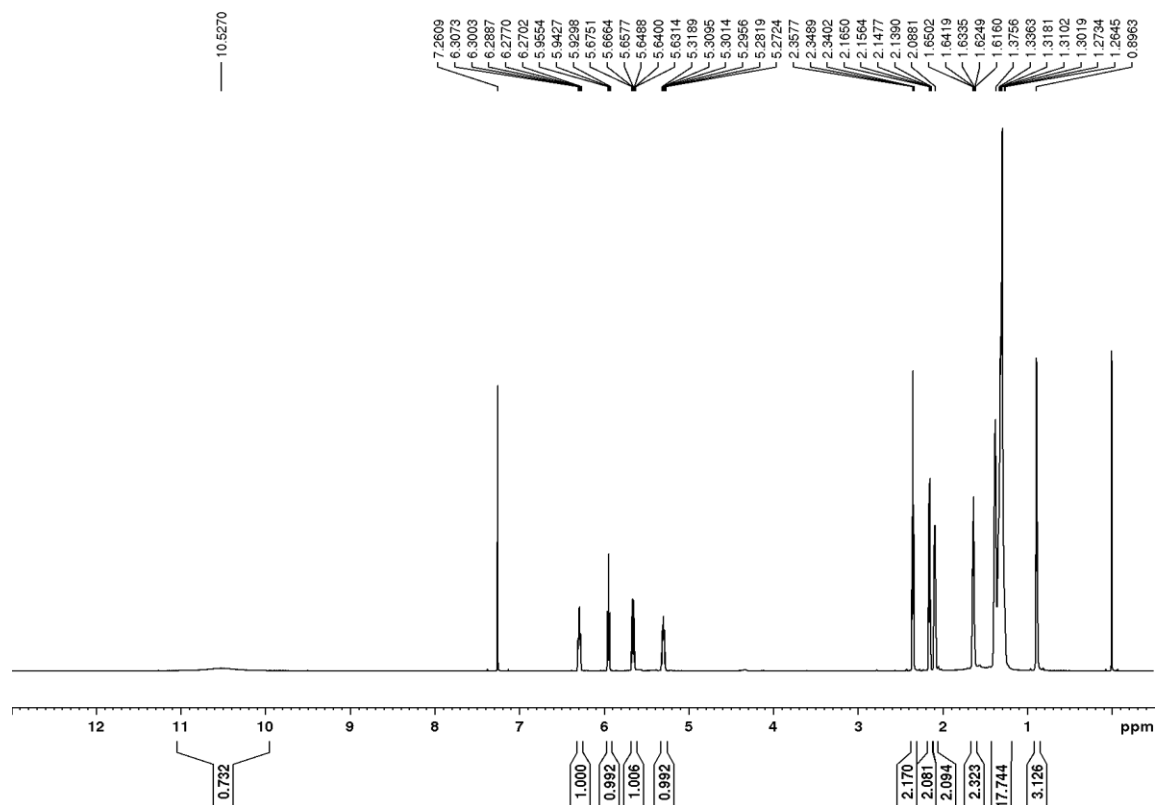


**Sup. 1** The primer design of cDNA for inflammatory gene

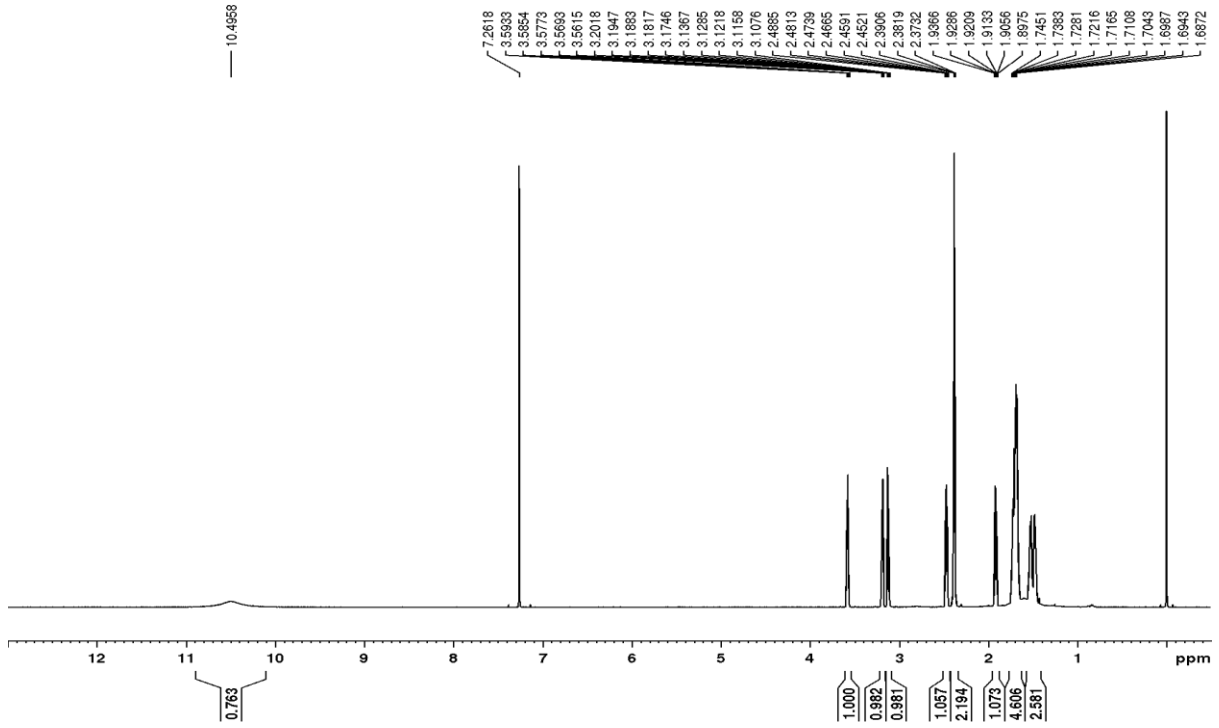
Gene	Forward	Reverse
iNOS	5'-CGTCCACAGTATCTGAGGATCAA-3'	5'-CAAGCAAGACTTGGACTTGCAA -3'
COX-2	5'-CCCCACAGTCAAAGACACT -3'	5'-CTCATCACCCCACTCAGGAT-3'
TRAF6	5'-GGAGGACAAGGTTGCCGAAAT-3'	5'-CCCAAAGTGGCCAATCTTCCAA-3'
PPAR $\gamma$	5'-GACAGGAAAGACAACAGACAAATC-3'	5'-GGGGTGATGTGTTTGAAGTTG-3'
MEK1	5'-GGCTGAACTACAGTGAAACCCTAGT GAC-3'	5'-GAGACACACACCACTAAGTATCCCA CAC-3'
ERK1	5'-TATTGTGTAAC TTTTGTGGCTTTGGG-3'	5'-CCTCCTCTCAAATCTACACTGAGTG- 3'
TNF- $\alpha$	5'-AGCCCCAGTCTGTATCCTT -3'	5'-GAGGCAACCTGACCACTCTC-3'
IL-1 $\beta$	5'-GAAGTCAAGAGCAAAGTGG-3'	5'-ACAGTCCAGCCCATACTTT-3'
IL-6	5'-CTGATGCTGGTGACAACCAC -3'	5'-TCCACGATTTCCCAGAGAAC-3'
GAPDH	5'-AGCCACATCGCTCAGACAC-3'	5'-GCCAATACGACCAAATCC-3'
$\beta$ -actin	5'-ATCACTATTGGCAACGAGCG -3'	5'-TCAGCAATGGCTGGGTACAT-3'

**Sup. 2**  $^1\text{H}$  NMR at 298K in  $\text{CDCl}_3$

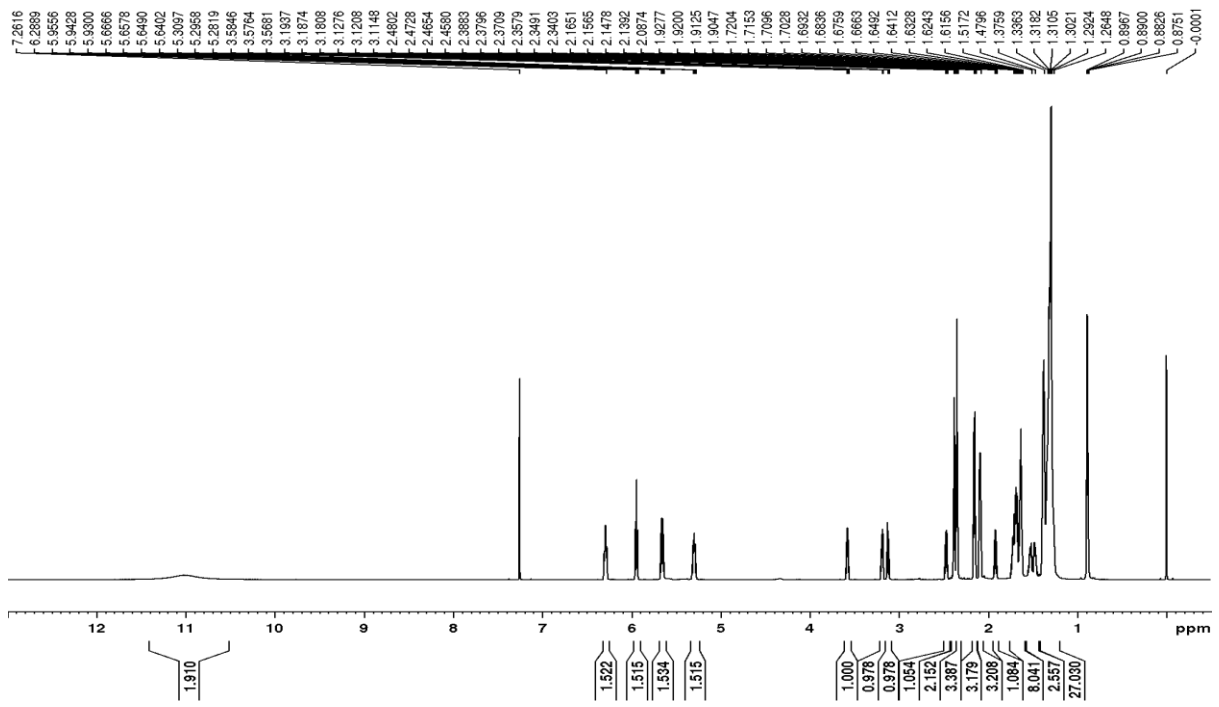
1) CLA



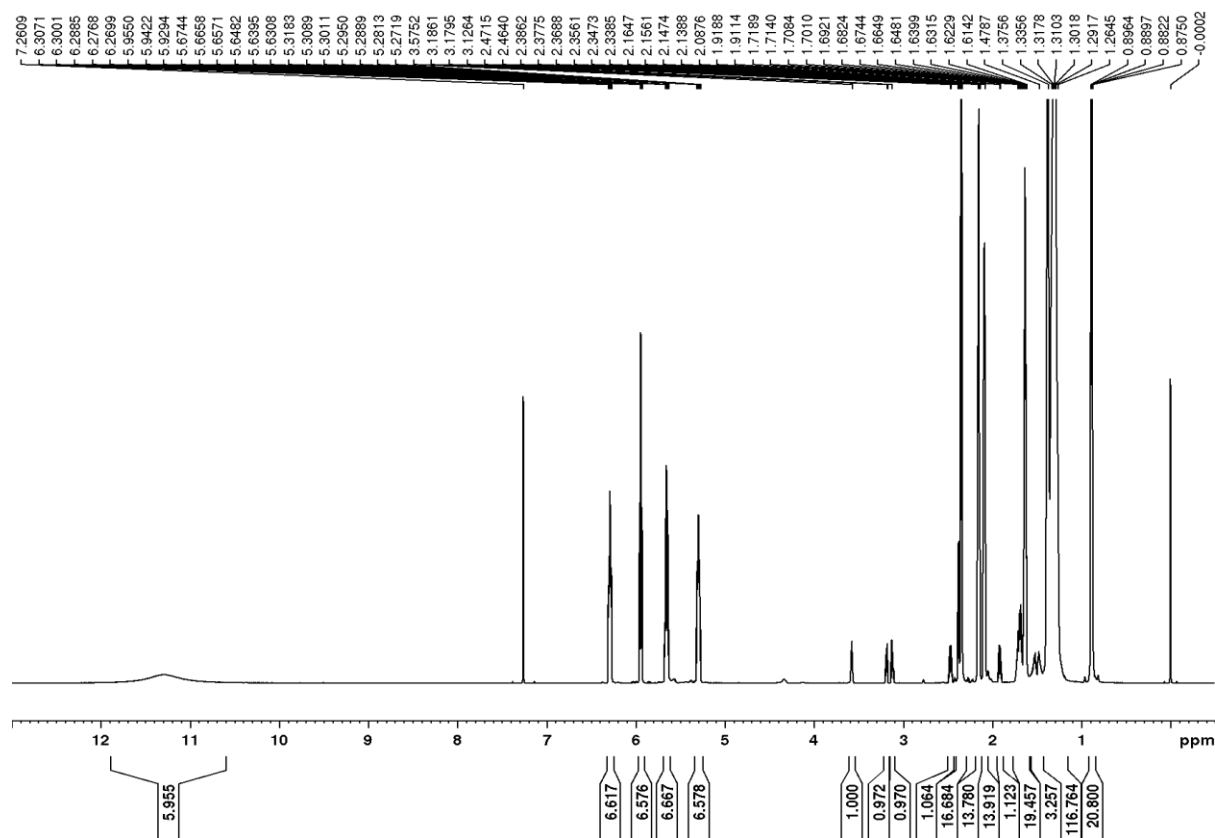
2) LA



3) CLA:LA=1:1



4) CLA:LA=4:1



**Sup. 3** The table of LA <sup>1</sup>H NMR chemical shift (CS) and T1 relaxation time at 5°C

<b># of Carbon</b>	<b>LA</b>	<b>CLA:LA=1:1 (mole ratio)</b>	<b>CLA:LA=4:1 (mole ratio)</b>
	<b>CS (ppm)</b>	<b>CS (ppm)</b>	<b>CS (ppm)</b>
<b>Acid- OH</b>	11.0300	11.5973	11.7631
<b>1</b>			
<b>2</b>	2.3926	2.3887	2.3884
<b>3</b>	1.7158	1.7140	1.7134
<b>4</b>	1.5162 1.4751	1.5145 1.4734	1.5140 1.4728
<b>5</b>	1.6788	1.6721	1.6713
<b>6</b>	3.5869	3.5857	3.5852
<b>7</b>	2.4851 1.9249	2.4837 1.9235	2.4832 1.9232
<b>8</b>	3.2017 3.1335	3.2003 3.1323	3.1999 3.1316

**Sup. 4** The table of LA <sup>1</sup>H NMR chemical shift (CS) and T1 relaxation time at 20°C

<b># of Carbon</b>	<b>LA</b>	<b>CLA:LA=1:1 (mole ratio)</b>	<b>CLA:LA=4:1 (mole ratio)</b>
	<b>CS (ppm)</b>	<b>CS (ppm)</b>	<b>CS (ppm)</b>
<b>Acid- OH</b>	10.4290	11.1593	11.3684
<b>1</b>			
<b>2</b>	2.3846	2.3817	2.3801
<b>3</b>	1.7116	1.7098	1.7091
<b>4</b>	1.5181 1.4795	1.5164 1.4778	1.5158 1.4771
<b>5</b>	1.6774	1.6750	1.6700
<b>6</b>	3.5797	3.5784	3.5779
<b>7</b>	2.4737 1.9184	2.4726 1.9176	2.4716 1.9171
<b>8</b>	3.1918 3.1248	3.1907 3.1238	3.1901 3.1231

**Sup. 5** The table of LA <sup>1</sup>H NMR chemical shift (CS) and T1 relaxation time at 35°C

<b># of Carbon</b>	<b>LA CS (ppm)</b>	<b>CLA:LA=1:1 (mole ratio) CS (ppm)</b>	<b>CLA:LA=4:1 (mole ratio) CS (ppm)</b>
<b>Acid- OH</b>	9.7624	10.6535	10.9194
<b>1</b>			
<b>2</b>	2.3783	2.3746	2.3736
<b>3</b>	1.7087	1.7071	1.6997
<b>4</b>	1.5207 1.4847	1.5186 1.4825	1.5179 1.4818
<b>5</b>	1.6807	1.6780	1.6771
<b>6</b>	3.5725	3.5720	3.5715
<b>7</b>	2.4637 1.9140	2.4620 1.9125	2.4613 1.9118
<b>8</b>	3.1827 3.1174	3.1817 3.1159	3.1812 3.1154