

Immunostimulatory Effects of Chitooligosaccharides on RAW 264.7 Mouse Macrophages via Regulation of the MAPK and PI3K/Akt Signaling Pathways

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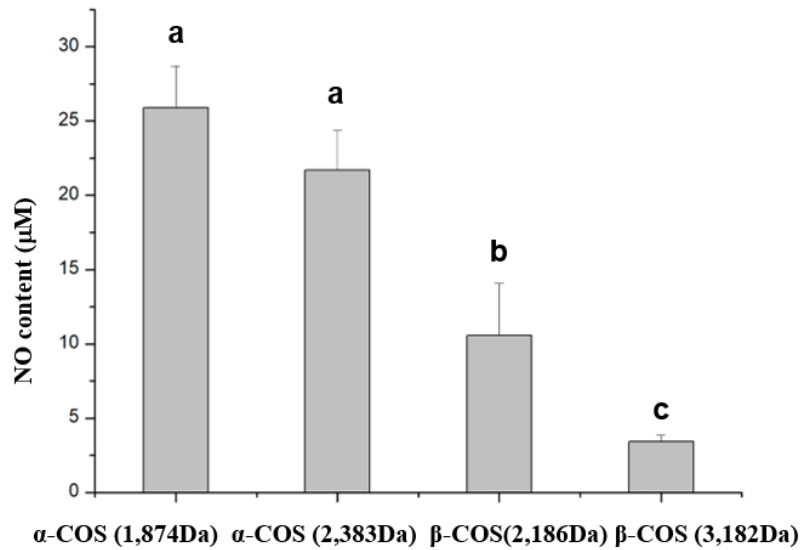


Figure S1. Nitric oxide production treated with α -chitooligosaccharide (α -COS) and β -chitooligosaccharide (β -COS) at the concentration of 100 $\mu\text{g}/\text{mL}$. The values are presented as means \pm SD ($n = 3$). Values with the same superscript letters were not significantly different from each other at $p < 0.05$.

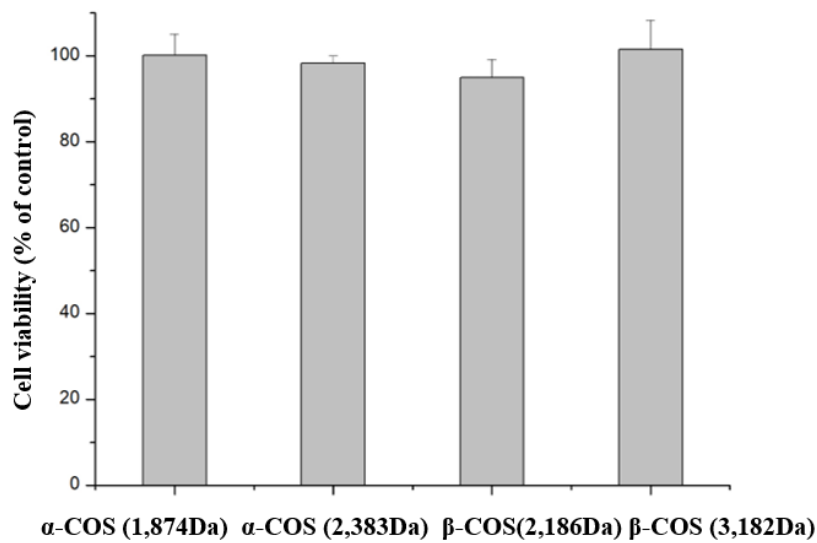


Figure S2. The cell viability treated with α -COS and β -COS at the concentration of 100 $\mu\text{g}/\text{mL}$. The values are presented as means \pm SD ($n = 3$).

Table 1 The primer sequences and conditions for RT-PCR

| Genes | Primer Sequence (5'-3') | Denaturation | Annealing | Extension | Cycles |
|---------------|--|--------------|-------------|-------------|--------|
| GAPDH | F: ACTCACGGCAAATTCAACGGCA R: GACTCCACGACATACTCAGCAC | | 60 °C, 30 s | | 25 |
| iNOS | F: CCCTCCGAAGTTTCTGGCAGCAG R: GGCTGTCAGAGCCTCGTGGCTTTGG | | 55 °C, 30 s | | 25 |
| COX-2 | F: CACTACATCCTGACCCACTT R: ATGCTCCTGCTTGAGTATGT | 94 °C,30 s | 55 °C, 30 s | 72 °C, 30 s | 25 |
| TNF- α | F: TGCCTATGTCTCAGCCTCTTC R: GAGGCCATTTGGGAACTTCT | | 55 °C, 30 s | | 25 |
| IL-6 | F: ARACTTCCATCCAGTTGCCTTCTTG R: CATGTGTAATTAAGCCTCCGACTTGTG | | 55 °C, 30 s | | 25 |