

Supplementary Data

Preparation and Characterization of Ginger Peel Polysaccharide-Zn (II) Complexes and Evaluation of Anti-Inflammatory Activity

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1. Material and Methods

1.1 Effect of GPs and GP-Zn (II) Complexes on the Expression Levels of Inflammation-Related Cytokines in Zebrafish

Table S1 Primers used for qRT-PCR analysis.

| Gene | Upstream primer | Downstream primer |
|----------------|--------------------------------|--------------------------------|
| IL-1 β | 5'-CTCAGCCTGTGTGTTTGGGA-3' | 5'-GGGACATTTGACGGACTCG-3' |
| IL-6 | 5'-ACGACATCAAACACAGCACC-3' | 5'-TCGATCATCACGCTGGAGAA-3' |
| IL-8 | 5'-CAAGAACCATTGGGATGAAGGAC-3' | 5'-CCTTCAGTAGCCTCTGTCCTTGT-3' |
| IL-12 | 5'-ACTCCTACAAGCCCAGCAC-3' | 5'-GGACACTCGGTCGTCAAAC-3' |
| TNF- α | 5'-GCTGGATCTTCAAAGTCGGGTGTA-3' | 5'-TGTGAGTCTCAGCACACTTCCATC-3' |
| IL-10 | 5'-GGAGACCATTCTGCCAACA-3' | 5'-CATTTCACCATATCCCGCT-3' |
| β -actin | 5'-CTCCGGTATGTGCAAAGC-3' | 5'-CCATCACTCCCTGATGTCT-3' |

2. Results and Discussion

2.1 Evaluation of the Anti-Inflammatory Activity of GPs and GP-Zn (II) Complexes and Underlying Mechanisms

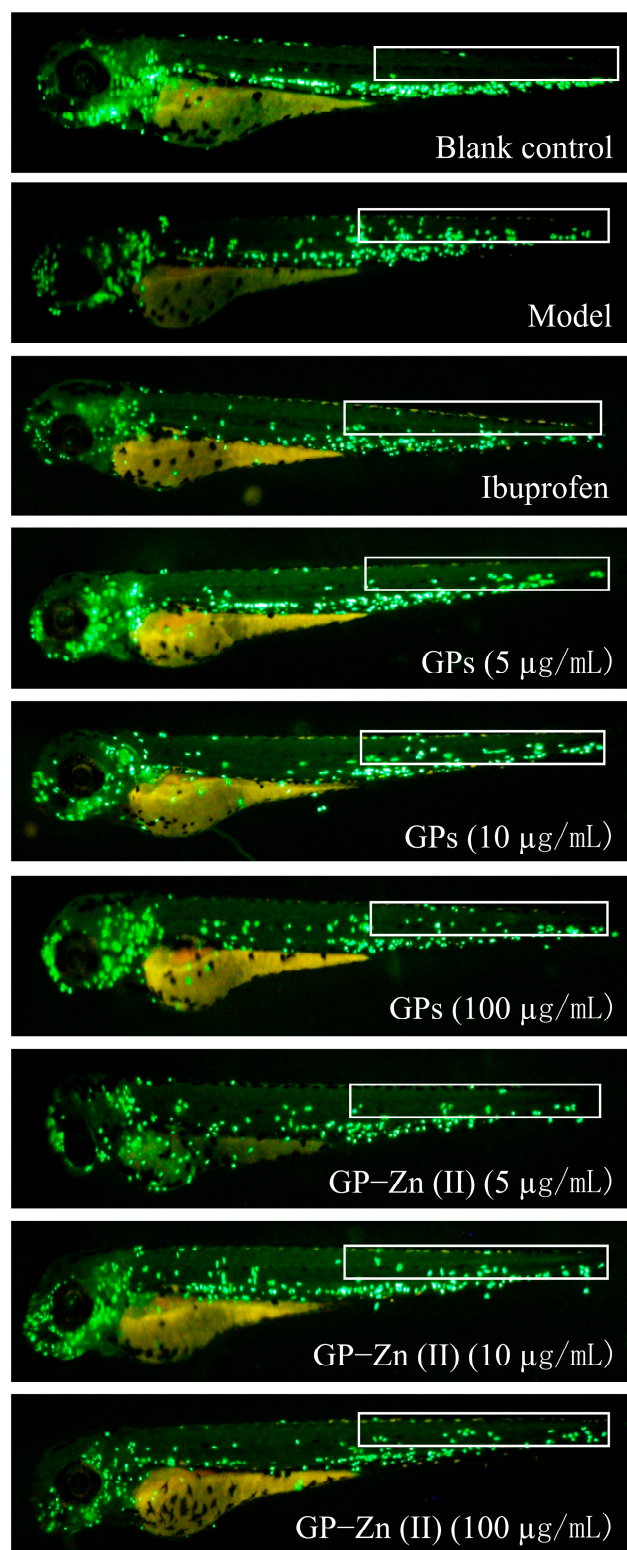


Figure S1. Representative images of zebrafish treated with CuSO_4 , ibuprofen and different doses of GPs and GP-Zn (II) complexes.