



**Supplemental Figure 1. LBP and the experimental protocol.**

**A.** Picture of lycium barbarum or wolfberry. **B.** Picture of lycium barbarum polysaccharides (LBP). **C.** The experimental protocol. WT or rd1 mice were injected daily with LBP or PBS from postnatal day 4 (P4), and tested at P14, P20 and P24 corresponding to the early, middle and late stages of photoreceptor degeneration in rd1 mice, respectively.