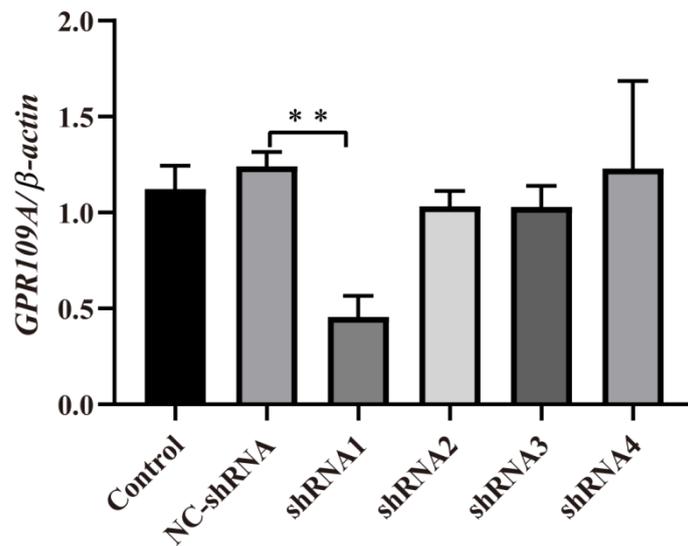
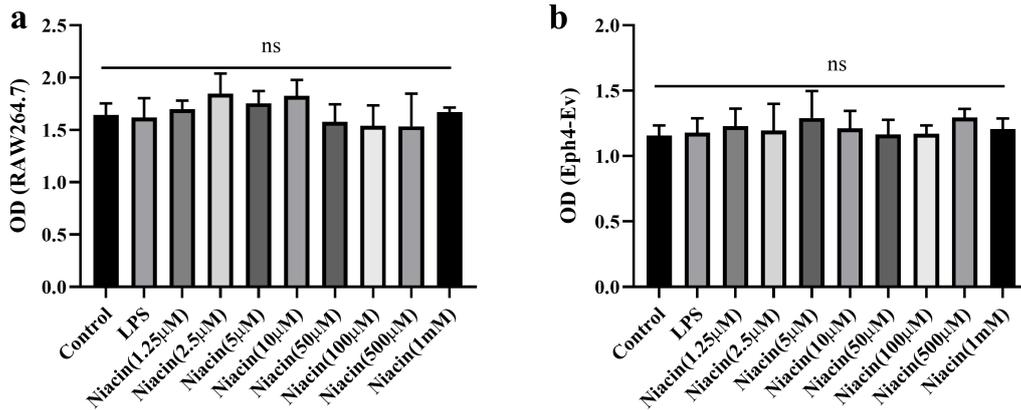


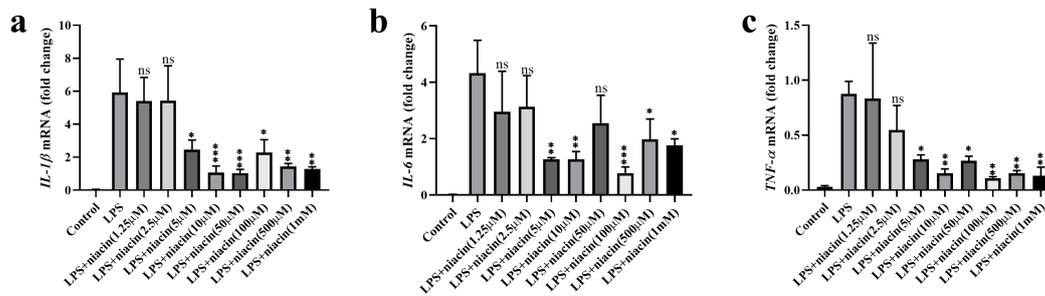
S 1. Active binding sites of niacin with GPR109A



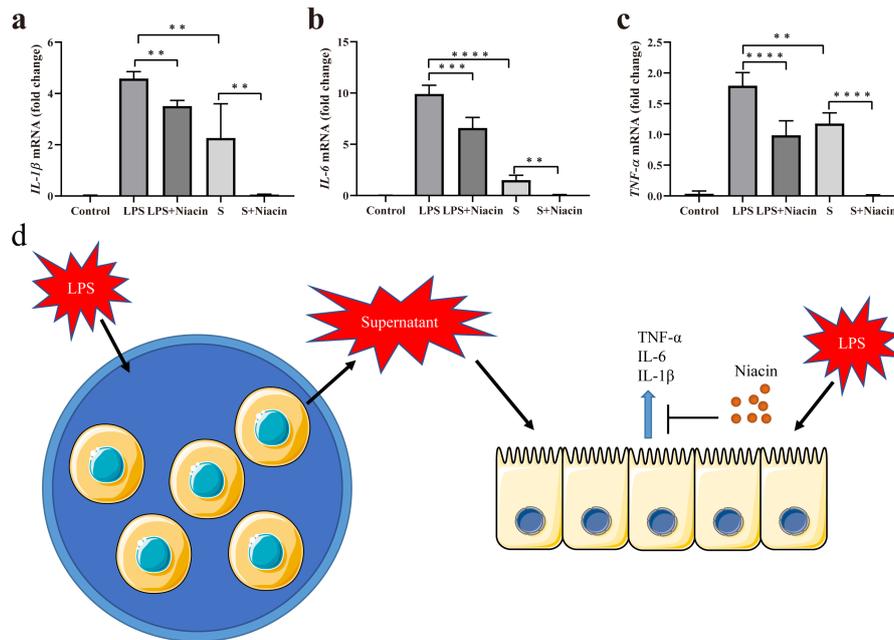
S 2. Knockdown efficiency of GPR109A knockdown plasmid. We designed four GPR109A knockdown sequences (shRNA1, shRNA2, shRNA3 and shRNA4). ShRNA1 has the highest efficiency.



S 3. Cytotoxic experiment of niacin. (a) Toxicity test of niacin in RAW264.7. (b) Toxicity of niacin in Eph4-Ev. Values are presented as means \pm SD.



S 4. Niacin reduces the inflammatory response of RAW264.7. (a-c) Gene levels of *IL-6*, *TNF-α* and *IL-1β*. Values are presented as means \pm SD. (n=3) (* $p < 0.05$ vs LPS, ** $p < 0.01$ vs LPS, *** $p < 0.001$ vs LPS, **** $p < 0.0001$ vs LPS).



S 5. Niacin can alleviate the inflammation of EpH4-Ev caused by RAW264.7 supernatant. (a-c) Gene levels of *IL-6*, *TNF-α* and *IL-1β*. Values are presented as means \pm SD. (n=3) (** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$).