**Supplementary Methods**

**Construction of a necroptosis model *in vitro***

HT29 cells were seeded into six-well cell culture plates. When cell confluency reached 70–80%, 2 μL of the necroptosis inducer (TSZ method) (C1058S, Beyotime, China) was added to each well.1 A group without the reagent was set up as a negative control. Subsequent tests were conducted at 4, 8, and 12 h. Procedures followed the instructions in the Annexin V-FITC/PI apoptosis kit (CA1020, Solarbio, China). Detection was performed using a flow cytometer (E97500357, BD Biosciences, USA).2 Data analysis was conducted using FlowJo V10.0 software. Proteins were extracted from HT29 cells treated with the necroptosis inducer at 4, 8, and 12 h, and the expression of MLKL and p-MLKL proteins was detected using the Western blot method.

HT29 cells were also seeded into 6-well cell culture plates. When cell confluency reached 70–80%, different concentrations of NaB (0, 1, 2, 4, and 8 mmol/L) were added to each well. After 8 h, 2 μL of the necroptosis inducer (TSZ method) was added to each well. A group without the reagent was set up as a negative control. Flow cytometry and Western blot methods were employed 4 h post-treatment to further assess effects and determine the effective concentration of NaB.

**References**

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