

Tight junction protein expression-inducing probiotics alleviate TNBS-induced cognitive impairment with colitis in mice

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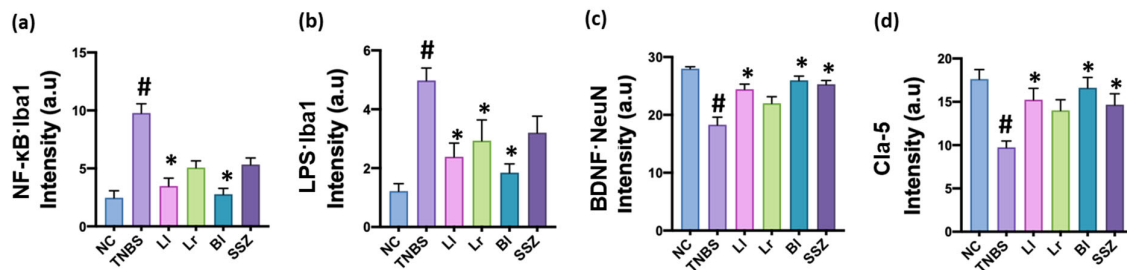


Figure S1. Effects of NK209 (LI), NK210 (Lr), and NK219 (BI) on NF-κB·Iba1⁺ (a), BDNF·NeuN⁺ (b), LPS·Iba1⁺ (c), claudin (Cla)-5⁺ cell populations in the hippocampus of mice with TNBS-impaired cognitive function. The entire intensities of the single plane images were quantified by ImageJ software (github.com/imagej/imagej1). Data indicate mean ± SD ($n = 8$). # $p < 0.05$ vs. NC. * $p < 0.05$ vs. TNBS.

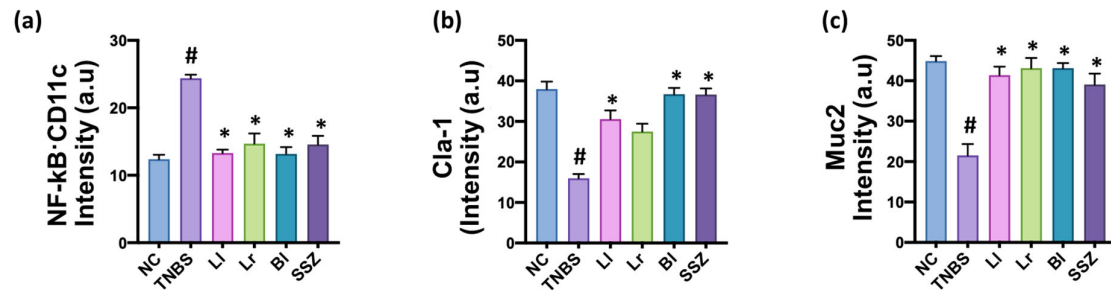


Figure S2 Effects of NK209 (LI), NK210 (Lr), and NK219 (BI) on NF-κB·CD11c⁺ (a), claudin (Cla)-1⁺ (b), and mucin (Muc)2⁺ (c) cell populations in the colon of mice with TNBS-induced colitis. The entire intensities of the single plane images were quantified by ImageJ software (github.com/imagej/imagej1). Data indicate mean ± SD ($n = 8$). # $p < 0.05$ vs. NC. * $p < 0.05$ vs. TNBS.

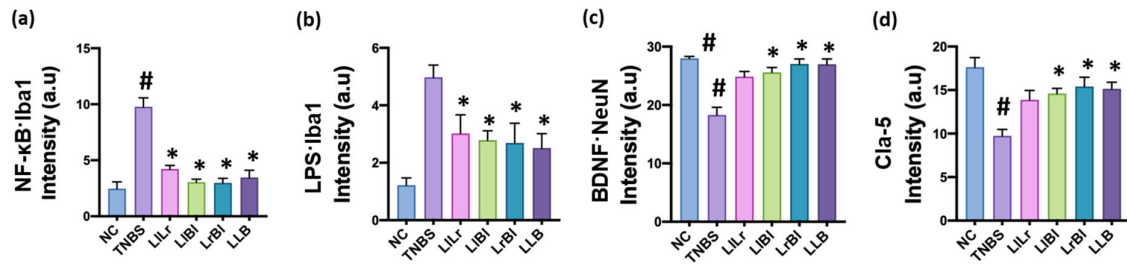


Figure S3. The combined effects of NK209 (LI), NK210 (Lr), and NK219 (BI) on NF-κB:Iba1⁺ (a), BDNF⁺NeuN⁺ (b), LPS:Iba1⁺ (c), claudin (Cla)-5⁺ cell populations in the hippocampus of mice with TNBS-impaired cognitive function. The entire intensities of the single plane images were quantified by ImageJ software (github.com/imagej/imagej1). Data indicate mean \pm SD ($n = 8$). # $p < 0.05$ vs. NC. * $p < 0.05$ vs. TNBS.

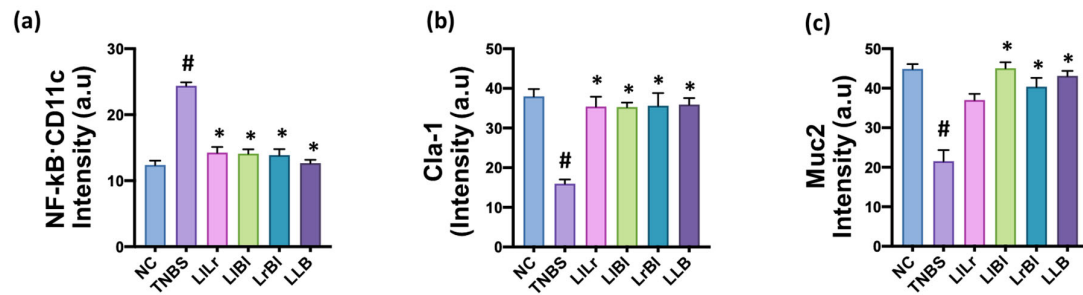


Figure S4. Figure 6. The combined effects of NK209 (LI), NK210 (Lr), and NK219 (BI) on NF-κB:CD11c⁺ (a), claudin (Cla)-1⁺ (b), and mucin (Muc)2⁺ (c) cell populations in the colon of mice with TNBS-induced colitis. The entire intensities of the single plane images were quantified by ImageJ software (github.com/imagej/imagej1). Data indicate mean \pm SD ($n = 8$). # $p < 0.05$ vs. NC. * $p < 0.05$ vs. TNBS.