
Salmonella typhimurium O Antibody Blocking Peptide

Catalog Number: bs-8660P

Activity: Not tested

Purification: HPLC

Storage: Shipped at 4°C. Stored at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The genus *Salmonella* is a member of the family Enterobacteriaceae. The genus is composed of Gram-negative bacilli that are facultative and flagellated (motile). *Salmonellae* possess 3 major antigens; the "H" or flagellar antigen (phase 1 & 2), the "O" or somatic antigen (part of the LPS moiety) and the "Vi" or capsular antigen (referred to as "K" in other Enterobacteriaceae). *Salmonellae* also possess the LPS endotoxin characteristic of Gram-negative bacteria. This LPS is composed of an "O" polysaccharide ("O" antigen) an "R" core and the endotoxic inner "Lipid A". Endotoxins evoke fever and can activate complement, kinin and clotting factors. Until recently the most common cause of food poisoning by *Salmonella* species was due to *S. Typhimurium*. As its name suggests, it causes a typhoid-like disease in mice. In humans *S. Typhimurium* does not cause as severe disease as *S. Typhi*, and is not normally fatal. The disease is characterized by diarrhea, abdominal cramps, vomiting and nausea, and generally lasts up to 7 days.