Inositol Hexakisphosphate Derivatives and Analogs and Uses Thereof

Inventors: Tor C. Savidge, Petril Urvil, Dhanajaya Nauduri, Numan Oezguen, Catherine Schein, Werner Braun

Description:
Provided herein are analog and derivative compounds of inositol hexakisphosphate effective to treat a Clostridium difficile infection and to neutralize the bacterial toxins produced by the same. Also provided are optimized compounds based on the inositol hexakisphosphate analogs/derivatives that are identified utilizing in silico docking based approach based on a crystalline inositol hexakisphosphate bound to a C. difficile toxin. In addition, methods of treating the C. difficile infection and for neutralizing its toxins with the compounds are provided.

Patent Status: Patent Pending USSN 13/441,017

Contact:
Sundeep Mattamana, Ph.D.
Associate Director
Office of Technology Transfer
(409) 772-0374
sumattam@utmb.edu