

**NOVEL PEPTIDES FOR TREATING AND PREVENTING IMMUNE-RELATED  
DISORDERS, INCLUDING TREATING AND PREVENTING INFECTION BY  
MODULATING INNATE IMMUNITY**

**ABSTRACT**

In one aspect, the present invention provides isolated novel peptides that can be used to modulate innate immunity in a subject and/or for the treatment of an immune-related disorder, including treating and preventing infection by modulating innate immunity. Also provided are an agent reactive with the peptide, a pharmaceutical composition that includes the peptide, an isolated nucleic acid molecule encoding the peptide, a recombinant nucleic acid construct that includes the nucleic acid molecule, at least one host cell comprising the recombinant nucleic acid construct, and a method of producing the peptide using the host cell. The present invention further provides a method for treating and/or preventing infection in a subject by administering the peptide of the invention to the subject, thereby modulating innate immunity in the subject. Additionally, the present invention provides a method for predicting whether a subject would be responsive to treatment with a peptide of the invention.

Fig. 2E