

عنوان مقاله:

3D structure analysis of VhhP2 Protein in *Vibrio harveyi*

محل انتشار:

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خلاصه مقاله:

Vibrio harveyi is one of the significant aquatic pathogens founded predominately in marinehabitats. The gram-negative bacterium can cause infection in a broad range of marine vertebratesand invertebrates, involving fish, shrimp, lobster, and mollusk. Until now, the traditional forms of vaccines against *V. harveyi* have been produced including killed whole bacterial cells (mostly)and extracellular products (in part). In addition to these vaccines, currently a number of proteinbased(in fact recombinant subunit) vaccines have been manufactures and are shown to beeffective against some *V. harveyi* strains. The gene of vhhP2 belonged a pathogenic *V. harveyi* strain isolated from diseased fish has been identified and discovered that vhhP2 is widelydistributed in *V. harveyi* strains of various geographical locations and sources.The present studywas designed to in silico resolving the major obstacles in the control or in prevention of *Vibrioharveyi* infections. We exploited bioinformatic tools to better understanding and characterizingthe vhhP2 3Dstructure and select appropriate regions as effective B cell epitops

کلمات کلیدی:

Vibrio harveyi, vaccine, vhhP2, 3Dstructure

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