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(57) Abstract

A VACCINE FORMULATION BASED ON NANOTECHNOLOGY DELIVERY OF NANO CARRIERS TO CELL OF THE IMMUNE SYSTEM AND METHOD THEREOF [029] The present invention discloses a vaccine formulation based on Nanotechnology delivery of Nano carriers to cell of the immune system and method thereof. The vaccine formulation includes, but not limited to, a first Nano carrier ligand composition comprised of a carbohydrate and the like residue capable of stimulating an innate immune response for a cell system, a second Nano carrier ligand composed of a T cell helper peptide, a third Nano carrier ligand comprising a danger signal selected from the group consisting of endotoxins, heat-shock proteins, nucleotides, reactive oxygen intermediates, extracellular-matrix breakdown products, neuromediators, cytokines and lipid moieties, wherein said danger signal is a toll-like receptor agonist, and wherein the plurality of Nano carrier ligand compositions is covalently linked to the core, wherein at least one of the Nano carrier ligand compositions comprises a carbohydrate moiety.

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