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TLR Agonist CADI-05

National Cancer Institute

Source

National Cancer Institute. *TLR Agonist CADI-05*. NCI Thesaurus. Code C77884.

A poly-Toll-like receptor (TLR) agonist polyantigenic vaccine containing heat killed *Mycobacterium indicus pranii* (*Mycobacterium w* or *Mw*) with potential immunostimulating and antineoplastic activities. Upon administration, poly-TLR agonist polyantigenic vaccine activates a number of TLRs, which may result in macrophage and plasmacytoid dendritic cell (pDC) stimulation; secretion of interferon alpha; production of pro-inflammatory cytokines; upregulation of co-stimulatory molecules, enhanced T and B-cell stimulatory responses; T cell proliferation, and a Th1 immune response. TLRs are transmembrane receptors that recognize structurally conserved microbial molecules such as bacterial cell-surface lipopolysaccharides (LPS), lipoproteins, lipopeptides, lipoarabinomannan and flagellin, among others; immune responses stimulated by TLR activation may result in antineoplastic effects.