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Genolimzumab

National Cancer Institute

Source

National Cancer Institute. *Genolimzumab*. NCI Thesaurus. Code C148159.

An immunoglobulin G4 (IgG4) humanized monoclonal antibody directed against the negative immunoregulatory human cell surface receptor programmed cell death 1 (PD-1; PD1; PDCD1; CD279), with potential immune checkpoint inhibitory and antineoplastic activities. Upon administration, genolimzumab binds to and inhibits PD-1 and its downstream signaling pathways. This may restore immune function through the activation of T-cells and cell-mediated immune responses against tumor cells. PD-1, a transmembrane protein in the immunoglobulin superfamily (IgSF) expressed on T-cells, functions as an immune checkpoint that negatively regulates T-cell activation and effector function when activated by its ligands programmed cell death-1 ligand 1 (PD-L1) or 2 (PD-L2); it plays an important role in tumor evasion from host immunity.