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Tacrolimus Anhydrous

National Cancer Institute

Source

National Cancer Institute. *Tacrolimus Anhydrous*. NCI Thesaurus. Code C76066.

Anhydrous form of tacrolimus, a macrolide isolated from *Streptomyces tsukubaensis*. Tacrolimus binds to the FKBP-12 protein and forms a complex with calcium-dependent proteins, thereby inhibiting calcineurin phosphatase activity and resulting in decreased cytokine production. This agent exhibits potent immunosuppressive activity in vivo and prevents the activation of T-lymphocytes in response to antigenic or mitogenic stimulation. Tacrolimus possesses similar immunosuppressive properties to cyclosporine, but is more potent.