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# Mogamulizumab

National Cancer Institute

## Source

National Cancer Institute. *Mogamulizumab*. NCI Thesaurus. Code C62510.

A humanized monoclonal antibody directed against C-C chemokine receptor 4 (CCR4) with potential anti-inflammatory and antineoplastic activities. Mogamulizumab selectively binds to and blocks the activity of CCR4, which may inhibit CCR4-mediated signal transduction pathways and, so, chemokine-mediated cellular migration and proliferation of T cells, and chemokine-mediated angiogenesis. In addition, this agent may induce antibody-dependent cell-mediated cytotoxicity (ADCC) against CCR4-positive T cells. CCR4, a G-coupled-protein receptor for C-C chemokines such MIP-1, RANTES, TARC and MCP-1, is expressed on the surfaces of some types of T cells, endothelial cells, and some types of neurons. CCR4, also known as CD194, may be overexpressed on adult T-cell lymphoma (ATL) and peripheral T-cell lymphoma (PTCL) cells.