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Anti-CTLA-4/OX40 Bispecific Antibody ATOR-1015

National Cancer Institute

Source

National Cancer Institute. <u>Anti-CTLA-4/OX40 Bispecific Antibody ATOR-1015</u>. NCI Thesaurus. Code C157494.

A bispecific antibody consisting of a cytotoxic T-lymphocyte-associated antigen 4 (CTLA-4) inhibitory protein fused to an OX40 agonistic human immunoglobulin G1 (IgG1) antibody, with potential immunostimulating and antineoplastic activities. Upon administration, anti-CTLA-4/OX40 bispecific antibody ATOR-1015 simultaneously binds to CTLA-4 and OX40, which may inhibit CTLA-4-mediated downregulation of T-cell activation and induce proliferation of memory and effector T-lymphocytes via OX40 activation. Both CTLA-4, an inhibitory receptor and member of the immunoglobulin superfamily (IgSF), and OX40, a cell surface glycoprotein and member of the tumor necrosis factor receptor superfamily (TNFRSF), are overexpressed by regulatory T-cells (Tregs) in the tumor microenvironment. AT OR-1015 may reduce the number of Tregs and promote the activation of effector T-cells, thereby enhancing the immune-mediated anti-tumor response.

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