

Open Peer Review on Qeios

Vanucizumab

National Cancer Institute

Source

National Cancer Institute. <u>Vanucizumab</u>. NCI Thesaurus. Code C118578.

A humanized bispecific immunoglobulin G (IgG1) monoclonal antibody targeting both the vascular endothelial growth factor receptor (VEGFR) ligand VEGF-A and the Tie2 receptor ligand angiopoietin-2 (Ang-2), with potential antineoplastic and anti-angiogenic activities. Upon administration of vanucizumab, the anti-VEGF-A arm, which is based on bevacizumab, targets and binds to VEGF-A and the anti-Ang2 arm, which is based on the anti-Ang-2 antibody LC06, targets and binds to Ang2, thereby simultaneously binding and neutralizing both VEGF-A and Ang2. This prevents the activation of both VEGF-A/VEGFR-and Ang2/Tie2-mediated signaling pathways. Altogether, this results in the inhibition of proliferation of VEGF-A- and/or Ang2-overexpressing tumor cells. VEGF-A and Ang2, both upregulated in a variety of tumor cell types, play key roles in tumor cell proliferation, angiogenesis and metastasis.

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