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Gentuximab

National Cancer Institute

Source

National Cancer Institute. *Gentuximab*. NCI Thesaurus. Code C154552.

A recombinant, humanized monoclonal antibody directed against the vascular endothelial growth factor receptor 2 (VEGFR-2), with potential anti-angiogenic and antineoplastic activities. Upon intravenous injection, gentuximab specifically binds to VEGFR-2, preventing the binding of its ligand, vascular endothelial growth factor (VEGF). Inhibition of VEGFR-2 signaling may potentially inhibit tumor angiogenesis and decrease nutrient supply to tumor cells, resulting in tumor cell death. VEGFR-2 is a type V receptor tyrosine kinase (RTK) expressed on endothelial cells and some tumor cells that regulates endothelial migration and proliferation.