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Ganitumab

National Cancer Institute

Source

National Cancer Institute. *Ganitumab*. NCI Thesaurus. Code C71531.

A recombinant, fully human monoclonal antibody directed against the insulin-like growth factor 1 receptor (IGF-1R) with potential antineoplastic activity. Ganitumab binds to membrane-bound IGF-1R, preventing binding of the ligand IGF-1 and the subsequent triggering of the PI3K/Akt signaling pathway; inhibition of this survival signaling pathway may result in the inhibition of tumor cell proliferation and the induction of tumor cell apoptosis. IGF-1R is a tyrosine kinase and a member of the insulin receptor family. IGF-1R activation stimulates cell proliferation, enables oncogenic transformation, and suppresses apoptosis; IGF-1R signaling has been highly implicated in tumorigenesis and metastasis.