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Glycooptimized Trastuzumab-GEX

National Cancer Institute

Source

National Cancer Institute. *Glycooptimized Trastuzumab-GEX*. NCI Thesaurus. Code C97917.

A glycoengineered form of a monoclonal antibody directed against the human epidermal growth factor receptor-2 (HER2), with potential antineoplastic activity. Glycooptimized trastuzumab-GEX specifically binds to the extracellular domain of HER2, thereby inducing an antibody-dependent cell-mediated cytotoxicity (ADCC) against HER2-expressing tumor cells. This eventually results in apoptosis and growth inhibition of tumor cells. HER2, a member of the receptor tyrosine kinase EGFR superfamily, is overexpressed on the cell surfaces of various solid tumors. This agent has a specific glycosylation profile that may enhance its ADCC response against HER2-expressing tumor cells.