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Anti-Integrin Monoclonal Antibody-DM4 Immunoconjugate IMGN388

National Cancer Institute

Source

National Cancer Institute. *Anti-Integrin Monoclonal Antibody-DM4 Immunoconjugate IMGN388*. NCI Thesaurus. Code C78839.

An immunoconjugate consisting of an anti-integrin monoclonal antibody covalently attached to the maytansinoid DM4, a derivative of the cytotoxic agent maytansine (DM1), with potential antineoplastic activity. Integrin-targeted immunoconjugate IMGN388 binds to tumor cell surface integrins; upon internalization, the DM4 moiety is released from the immunoconjugate, binding to tubulin and disrupting microtubule assembly/disassembly dynamics, which may result in inhibition of cell division and cell growth of integrin-expressing tumor cells. Integrins, a class of transmembrane cell surface receptors, link the extracellular matrix (ECM) to intracellular signaling pathways that control cell proliferation and differentiation.