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Inotuzumab Ozogamicin

National Cancer Institute

Source

National Cancer Institute. *Inotuzumab Ozogamicin*. NCI Thesaurus. Code C71542.

A CD22-targeted cytotoxic immunoconjugate composed of a humanized IgG4 anti-CD22 antibody covalently linked to N-acetyl-gamma-calicheamicin dimethyl hydrazide (CalichDMH) with potential antineoplastic activity. Inotuzumab ozogamicin is rapidly internalized upon binding of the antibody moiety to B cell-specific CD22 receptors, delivering the conjugated CalichDMH intracellularly; the CalichDMH moiety binds to the minor groove of DNA in a sequence-specific manner, resulting in double-strand DNA breaks and apoptosis. CalichDMH is a derivative of gamma calicheamicin, a cytotoxic antibiotic produced by the bacterium *Micromonospora echinospora*.