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Immunotoxin CMD-193

National Cancer Institute

Source

National Cancer Institute. *Immunotoxin CMD-193*. NCI Thesaurus. Code C62480.

A humanized immunotoxin directed against the Lewis Y antigen conjugated with calicheamicin, a hydrophobic enediyne antibiotic, with potential antineoplastic activity. CMD193 binds to the Lewis Y antigen, a tetrasaccharide expressed on the cell surfaces of many tumor cell types. Upon binding, CMD-193 is internalized, thereby delivering the attached calicheamicin to Lewis Y antigen-expressing tumor cells. Calicheamicin binds non-covalently to the minor groove of DNA and prompts conformational changes and DNA oxidation, thereby inhibiting DNA synthesis and inducing apoptosis.