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Monoclonal Antibody HD37-SMPT-dgA Immunotoxin

National Cancer Institute

Source

National Cancer Institute. *Monoclonal Antibody HD37-SMPT-dgA Immunotoxin*. NCI Thesaurus. Code C29222.

An immunotoxin consisting of the murine anti-CD19 monoclonal antibody HD37 conjugated to a deglycosylated ricin A chain (dgA) via the linking molecule N-succinimidyl-oxy carbonyl-alpha-methyl-alpha-(2-pyridyldithio) toluene (SMPT). The HD37 component binds to CD19, a B-cell restricted antigen, thereby targeting the delivery of the cytotoxic ricin A chain to B-cells. The ricin A chain component binds to B-cells and disrupts ribosomal activity and protein synthesis and induces cell cycle arrest. (NCI04)