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HL-60/MX1

National Cancer Institute

Source

National Cancer Institute. *HL-60/MX1*. NCI Thesaurus. Code C20230.

HL-60/MX1 is a mitoxantrone resistant derivative of the HL-60 cell line. The cells were selected and subcloned in 1987 for resistance to 39 nM mitoxantrone, an anthracenedione antitumor agent. Subsequent exposure of the HL-60/MX1 cells to higher concentrations of mitoxantrone led to the emergence of cells capable of growth at 190 nM. HL-60/MX1 cells are cross resistant to etoposide, teniposide, bisantrene, actinomycin, 4'-(9-acridinylamino)methane-sulfon-m-anisidide, and the anthracyclines daunorubicin and doxorubicin but retain sensitivity to the Vinca alkaloids vincristine and vinblastine, melphalan, mitomycin C and cisplatin.