

Cantuzumab mertansine

Cat. No.:	HY-P99492
CAS No.:	400010-39-1
Target:	Microtubule/Tubulin; Antibody-Drug Conjugates (ADCs)
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Antibody-drug Conjugate/ADC Related
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Cantuzumab mertansine (SB-408075; huC242-DM1), an ADC, is an immunoconjugate of the potent maytansine derivative (DM1 ; HY-19792) and the humanized monoclonal antibody (huC242) directed to CanAg. Cantuzumab mertansine has cytotoxic toward colon cancer cells and has broad antitumor efficacy against a range of CanAg-positive human tumor xenografts ^{[1][2]} .	
In Vitro	Cantuzumab mertansine (SB-408075; huC242-DM1; 0-100 μM; 24 h) has selective cytotoxic activity on antigen-positive COLO 205 cell line ^[1] .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Cytotoxicity Assay ^[1]	
	Cell Line:	Antigen-positive COLO 205 cell line and the antigen-negative A-375 melanoma cell line
	Concentration:	0-100 μM
	Incubation Time:	24 h
In Vivo	Result:	Had cytotoxic activity on COLO 205 cells with an IC ₅₀ value of 0.032 nM (23.5 pg/ml). Had 1100-fold less cytotoxic activity for the antigen-negative A-375 cells (IC ₅₀ =36 nM; 26.5 ng/ml).
	Cantuzumab mertansine (SB-408075; huC242-DM1; 300 μg/kg/day for 5 days) results in complete regressions and cures of mice bearing human xenografts of COLO 205 colon cancer ^[1] .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Female CB-17 SCID mice, 6-7 weeks of age bearing COLO 205 human colon tumor xenografts ^[1]
	Dosage:	300 μg/kg
In Vivo	Administration:	Daily for 5 days
	Result:	Completely eliminated any measurable tumors within 2 weeks of the initiation of therapy, and all eight animals were tumor-free for 200 days (duration of the experiment).

REFERENCES

- [1]. Paul R Helft, et al. A phase I study of cantuzumab mertansine administered as a single intravenous infusion once weekly in patients with advanced solid tumors. Clin Cancer Res. 2004 Jul 1;10(13):4363-8.
- [2]. Anthony W. Tolcher, et al. Cantuzumab Mertansine, a Maytansinoid Immunoconjugate Directed to the CanAg Antigen: A Phase I, Pharmacokinetic, and Biologic Correlative Study. J Clin Oncol. 2003 Jan 15;21(2):211-22.
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Caution: Product has not been fully validated for medical applications. For research use only.

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