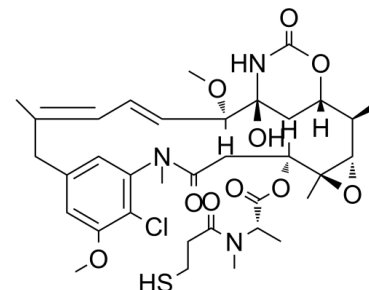


Data Sheet

Product Name:	Mertansine
Cat. No.:	CS-5804
CAS No.:	139504-50-0
Molecular Formula:	C ₃₅ H ₄₈ ClN ₃ O ₁₀ S
Molecular Weight:	738.29
Target:	ADC Cytotoxin; Microtubule/Tubulin
Pathway:	Antibody-drug Conjugate/ADC Related; Cell Cycle/DNA Damage; Cytoskeleton
Solubility:	H ₂ O : < 0.1 mg/mL (insoluble); DMSO : ≥ 83.33 mg/mL (112.87 mM)



BIOLOGICAL ACTIVITY:

Mertansine (DM1) is a **microtubulin** inhibitor and is an antibody-conjugatable maytansinoid that is developed to overcome systemic toxicity associated with maytansine and to enhance tumor-specific delivery. Mertansine can be attached to a monoclonal antibody with a linker to create an antibody-drug conjugate (ADC)^{[1][2]}.

References:

- [1]. Manu Lopus et al. Maytansine and Cellular Metabolites of Antibody-Maytansinoid Conjugates Strongly Suppress Microtubule Dynamics by Binding to Microtubules.
- [2]. Lopus M. Antibody-DM1 conjugates as cancer therapeutics. *Cancer Lett.* 2011 Aug 28;307(2):113-8.

CAIndexNames:

Maytansine, N2'-deacetyl-N2'-(3-mercapto-1-oxopropyl)-

SMILES:

C[C@]1([C@@](CC(N(C(C=C2C=C3OC)=C3Cl)C)=O)([H])OC([C@H](C)N(C)C(CCS)=O)=O)[C@H]([C@@H]([C@](OC4=O)([H])C[C@]([C@]/C=C/C=C(C)/C2)([H])OC)(N4)O)C)O1

Caution: Product has not been fully validated for medical applications. For research use only.

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