

Product Data Sheet

Product Name: DM1-SMe

Cat. No.: GC18254

Chemical Properties

Cas. No. 138148-68-2

Chemical Name N2'-deacetyl-N2'-[3-(methyldithio)-1-oxopropyl]-maytansine

SMILES C[C@@]1([C@@H](O1)[C@H](C)[C@]([H])(C[C@](N2)(O)[C@]([H])(OC)/C=C/C=C(C)C3=CC(OC)=C(Cl)C4=C3)C)OC2=O)[C@@]([H])(OC([C@@H](N(C)C(CCSSC)=O)C)=O)CC(N4C)=O

Formula C₃₆H₅₀ClN₃O₁₀S₂

M.Wt 784.4

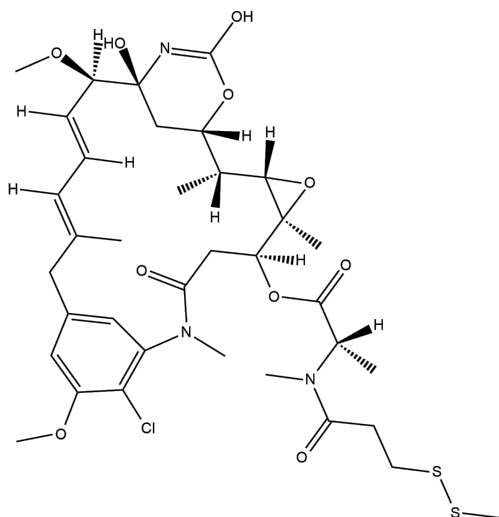
Solubility DMF: 16 mg/ml, DMF:PBS (pH 7.2) (1:5): 0.16 mg/ml, DMSO: 12 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

DM1-SMe is an analog of mertansine with a thiomethane cap attached to the sulfhydryl group. It has

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in vitro activity against the pediatric preclinical testing program (PPTP) panel of cancer cell lines with IC50 values of 0.002 to >3 nM.

References:

[1]. Wood, A.C., Maris, J.M., Gorlick, R., et al. Initial testing (Stage 1) of the antibody-maytansinoid conjugate, IMG901 (Lorvotuzumab mertansine), by the pediatric preclinical testing program Pediatr. Blood Cancer 60(11), 1860-1867 (2013).

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