
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(CC3=CC(OC)=C(CI)C4=C3)\C)OC2=O)[C@@]([H])(OC([C@@H](N(C)C(CCSSC)=O)C)=O)CC(N4C)=OFormula 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 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, IMGN901 (Lorvotuzumab mertansine), by the pediatric preclinical testing program *Pediatr. Blood Cancer* 60(11), 1860-1867 (2013).

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

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