
Product Data Sheet

Product Name: DM4-SPDP

Cat. No.: GC38460

Chemical Properties

Cas. No. 2245698-48-8

SMILES COC1=CC(C/C(C)=C/C=C/[C@@H](OC)[C@]2(O)NC(OC([C@@H](C)[C@H]3[C@](O3)(C)[C@@H](OC([C@H](C)N(CCCC(C)(C)SSCCC(ON4C(CCC4=O)=O)=O)=O)C)=O)CC5=O)C2)=O)=CC(N5C)=C1Cl

Formula C₄₅H₆₁ClN₄O₁₄S₂ M.Wt 981.57

Solubility Soluble in DMSO 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

DM4-SPDP is a drug-linker conjugate composed of a potent antitubulin agent DM4 and a linker SMCC to make antibody drug conjugate[1]. SPDP is a short-chain crosslinker for amine-to-sulfhydryl conjugation via NHS-ester and pyridyldithiol reactive groups that form cleavable (reducible) disulfide bonds with cysteine sulfhydryls[2][3].

[1]. Tang R, et al. P-gp activity is a critical resistance factor against AVE9633 and DM4 cytotoxicity in leukaemia cell lines, but not a major mechanism of chemoresistance in cells from acute myeloid leukaemia patients. BMC Cancer. 2009 Jun 23;9:199. [2]. Lobedanz S et al. A periplasmic coiled-coil interface underlying TolC recruitment and the assembly of bacterial drug effluxpumps. Proc Natl Acad Sci U S A, 2007 Mar 13, 104(11):4612-7. [3]. Karumuthil-Meethil S et al. Dendritic cell-directed CTLA-4 engagement during pancreatic beta cell antigen presentation delays type 1 diabetes. J Immunol 2010 Jun 15, 184(12):6695-708.

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

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