Product Data Sheet

Product Name: Nitro-PDS-Tubulysin M
Cat. No.: GC36748

Chemical Properties

Cas. No.	1941168-69-9		
SMILES	O=C(O)[C@@H](C)C[C@@H](NC(C1=CSC([C@H](OC(C)=O)C[C@@H](N(C)C([C@@H](NC([C@@H]2[N+](CC3=CC=C(NC(OC[C@H](SSC4=CC=C([N+]([O-])=O)N=C4)C)=O)C=C3)(C)CCCC2)=O)[C@@H](C)CC)=O)C(C)C)=N1)=O)CC5=CC=CC=C5		
Formula	$C_{54}H_{73}N_8O_{11}S_3$	M.Wt	1106.4
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Nitro-PDS-Tubulysin M		

Background

Nitro-PDS-Tubulysin M has a bioreversible linkage based on a quaternary ammonium for targeted delivery and it can improve pharmacokinetics and the therapeutic index. Nitro-PDS-Tubulysin M is used for the antibody-drug conjugates (ADC) to treat various diseases or disorders, e.g. characterized by the overexpression of a tumor antigen[1,2].

ADC2-2 (anti-CD22 10F4v3 LC K149C Nitro-PDS-Tubulysin M) displays target-specific killing in WSU-DLCL2 human diffuse large B-cell lymphoma tumors with IC50 of 0.147 nM, and ADC2-1 (anti-Napi2b 10H1.11.4B LC K149C Nitro-PDS-Tubulysin M) displays target-specific killing in human ovarian cancer IGROV-1 and OVCAR-3x2.1 with IC50s of 2.07 nM, 1.004 nM, respectively[1].

[1]. FLYGARE, John A, et al. Quaternary amine compounds and antibody-drug conjugates thereof. WO2016090050A1. [2]. Staben LR, et al. Targeted drug delivery through the traceless release of tertiary and heteroaryl amines from antibody-drug conjugates. Nat

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Chem. 2016 Dec;8(12):1112-1119.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA