Product Data Sheet

Product Name: MC-Sq-Cit-PAB-Dolastatin10
Cat. No.: GC36563

Chemical Properties

Cas. No.	1941168-65-5		
SMILES	C[N+]([C@H](C(N[C@H](C(N([C@@H]([C@@H](C)CC)[C@H](OC)CC(N1[C@H]([C@H](OC)[C@@H](C)C(N[C@H](C2=NC=CS2)CC3=CC=CC=C3)=O)CCC1)=O)C)=O)C(C)C)=O)C(C)C)(CC4=CC=C(NC([C@@H](NC(C5(C(NCCCCCN6C(C=CC6=O)=O)=O)CCC5)=O)CCCNC(N)=O)=O)C=C4)C		
Formula	$C_{70}H_{105}N_{12}O_{12}S$	M.Wt	1338.72
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	MC-Sq-Cit-PAB-Dolastatin10		

Background

MC-Sq-Cit-PAB-Dolastatin10 has a bioreversible linkage based on a quaternary ammonium for targeted delivery and it can improve pharmacokinetics and the therapeutic index. MC-Sq-Cit-PAB-Dolastatin10 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].

ADC1-2 (anti-CD22 10F4v3 LC K149C MC-Sq-Cit-PAB-Dolastatin 10) displays target-specific killing in WSU-DLCL2 human diffuse large B-cell lymphoma tumors with IC50 of 0.385 nM, and ADC1-1 (anti-Napi2b 10H1 11.4B LC K149C MC-Sq-Cit-PAB-Dolastatin 10) displays target-specific killing in human ovarian cancer IGROV-1 and OVCAR-3x2.1 with IC50s of 3.19 nM, 1.52 nM, respectively[1].

[1]. FLYGARE, John A, et al. Quaternary amine compounds and antibody-drug conjugates

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thereof. WO2016090050A1. [2]. Staben LR, et al. Targeted drug delivery through the traceless release of tertiary and heteroaryl amines from antibody-drug conjugates. Nat Chem. 2016 Dec;8(12):1112-1119.

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