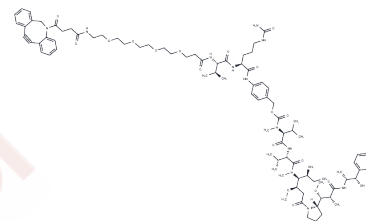


DBCO-PEG4-VC-PAB-MMAE

Chemical Properties

CAS No. :	2129164-91-4
Formula:	C ₈₈ H ₁₂₈ N ₁₂ O ₁₉
Molecular Weight:	1658.06
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	DBCO-PEG4-VC-PAB-MMAE is a drug-linker complex consisting of an ADC linker (DBCO-PEG4-VC-PAB) and the tubulin polymerization inhibitor MMAE. It is a key building block utilized for the synthesis of antibody-drug conjugates (ADCs). MMAE, a synthetic derivative of dolastatin 10, functions as a potent mitotic inhibitor by blocking tubulin polymerization. The reagent features a DBCO group, enabling strain-promoted alkyne-azide cycloaddition (SPAAC) with azide-containing molecules via click chemistry. The VC-PAB (Valine-Citrulline-p-aminobenzylcarbamate) moiety is a Cathepsin B-cleavable linker, ensuring site-specific drug release within the lysosomal environment of target cells.
Targets(IC50)	Drug-Linker Conjugates for ADC

Solubility Information

Solubility	DMSO: 120.00 mg/mL (72.37 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6031 mL	3.0156 mL	6.0311 mL
5 mM	0.1206 mL	0.6031 mL	1.2062 mL
10 mM	0.0603 mL	0.3016 mL	0.6031 mL
50 mM	0.0121 mL	0.0603 mL	0.1206 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Okeley, et al. Intracellular Activation of SGN-35, a Potent Anti-CD30 Antibody-Drug Conjugate. Clinical Cancer Research (2010), 16(3), 888-897.

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