

## Maleimido-tri(ethylene glycol)-propionic acid

## Chemical Properties

CAS No. :	518044-40-1
Formula:	C13H19NO7
Molecular Weight:	301.293
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Maleimido-tri(ethylene glycol)-propionic acid is a cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs) for the preparation of neolymphostin-based ADC precursors, specifically for site-specific cysteine mutant trastuzumab-A114C conjugation[1].
Targets(IC50)	ADC Linker,PROTAC Linker
In vitro	Mal-PEG3-C2-acid is utilized in the synthesis of linker-payload compounds 16 (compound 15) and 20 (compound 18), which are then conjugated to DAR1.9 and DAR1.7, respectively[1]. ADCs 23 and 24, which are Neolymphostin ADCs, incorporate DAG 1.9 and DAG1.7, respectively, linked to PIKK inhibitors through linker-payloads 16 and 20. Notably, ADC24 exhibits cytotoxic activities against BT474 and N87 cell lines with IC50 values of 195 and 202 nM, respectively[1]. Similarly, ADC23 shows cytotoxic effects on the same cell lines, with IC50 values of 286 and 274 nM, respectively[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3191 mL	16.5953 mL	33.1906 mL
5 mM	0.6638 mL	3.3191 mL	6.6381 mL
10 mM	0.3319 mL	1.6595 mL	3.3191 mL
50 mM	0.0664 mL	0.3319 mL	0.6638 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

Zhou D, et al. Novel PIKK inhibitor antibody-drug conjugates: Synthesis and anti-tumor activity. *Bioorg Med Chem Lett.* 2019 Apr 1;29(7):943-947.

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