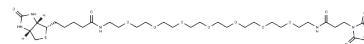


Biotin-PEG7-Maleimide

Chemical Properties

CAS No. :	1898221-65-2
Formula:	C33H55N5O12S
Molecular Weight:	745.88
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	Biotin-PEG7-Maleimide is a biotinylated biochemical assay reagent, which can be used as a thiol-specific probe. Cysteine-linked ADCs prepared with N-aryl maleimides exhibit less than 20% deconjugation in thiol-containing buffer. Cysteine-linked ADCs prepared with N-aryl maleimides therefore markedly enhanced stability when compared with analogous ADCs prepared using N-alkyl maleimides, which undergo 35-67% deconjugation under identical conditions. Cysteine-linked ADCs prepared with N-aryl maleimides and incorporating the anticancer drug N-phenyl maleimide monomethyl-auristatin-E (MMAE) maintain strong cytotoxicity following prolonged serum exposure, whereas N-alkyl maleimide MMAE ADCs progressively lose potency.
Targets(IC50)	ADC Linker

Solubility Information

Solubility	DMSO: 80 mg/mL (107.26 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	1.3407 mL	6.7035 mL	13.407 mL
5 mM	0.2681 mL	1.3407 mL	2.6814 mL
10 mM	0.1341 mL	0.6703 mL	1.3407 mL
50 mM	0.0268 mL	0.1341 mL	0.2681 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

R James Christie, et al. Stabilization of cysteine-linked antibody drug conjugates with N-aryl maleimides. J Control Release. 2015 Dec 28;220(Pt B):660-70.

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