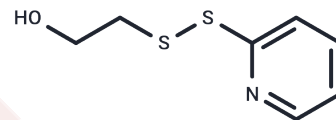


(2-pyridyldithio)-PEG1-hydrazine

Chemical Properties

CAS No. :	111625-28-6
Formula:	C7H9NOS2
Molecular Weight:	187.28
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	(2-Pyridyldithio)-PEG1-hydrazine is a one-unit cleavable polyethylene glycol (PEG) linker specifically designed for the synthesis of antibody-drug conjugates (ADCs). This linker offers the advantage of controlled release of the drug payload from the ADC construct. It is utilized in the conjugation process between the antibody and the cytotoxic drug, enabling the targeted delivery of the drug to cancer cells. The (2-pyridyldithio) group of this linker provides stability during circulation in the bloodstream, while the hydrazine moiety allows for efficient drug release at the tumor site. Overall, the (2-pyridyldithio)-PEG1-hydrazine linker serves as a valuable tool in the development of targeted chemotherapeutic agents for cancer treatment.
Targets(IC50)	ADC Linker
In vitro	ADCs consist of an antibody conjugated to an ADC cytotoxin via an ADC linker[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.3396 mL	26.698 mL	53.396 mL
5 mM	1.0679 mL	5.3396 mL	10.6792 mL
10 mM	0.534 mL	2.6698 mL	5.3396 mL
50 mM	0.1068 mL	0.534 mL	1.0679 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

Beck A, et al. Strategies and challenges for the next generation of antibody-drug conjugates. Nat Rev Drug Discov. 2017 May;16(5):315-337.

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