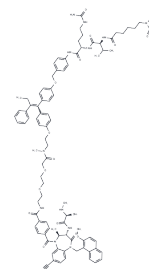


PAC

Chemical Properties

CAS No. :	2158322-33-7
Formula:	C94H107N13O16
Molecular Weight:	1674.965
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	PAC is a chemical conjugate consisting of an ADCs linker and PROTACs linked to an antibody. When PAC is conjugated to an antibody, it exhibits enhanced degradation of estrogen receptor-alpha (ER α) in comparison to PROTAC alone.
Targets(IC50)	Estrogen Receptor/ERR,PROTAC-Linker Conjugates for PAC
In vitro	Treatment with the HER2 antibody-containing PAC Anti-HER2(Endox-XIAP) significantly reduces Estrogen Receptor-alpha (ER α) levels in HER2-expressing cells, achieving an IC50 value of 132 ng/mL. This effect is attributed to the structure of the PROTAC-Antibody Conjugate (PAC), which consists of an antibody linked via a linker (L1) to a PROTAC. This PROTAC includes an ubiquitin E3 ligase binding group ('E3LB'), a secondary linker ('L2'), and a protein binding group ('PB'). Key components of the PAC include: 1. The antibody (Ab), which targets cells expressing a specific antigen, facilitating the intracellular delivery of the PAC, mainly through endocytosis, although in cases where the antigen is not on the cell surface, pinocytosis may occur. 2. The linker (L1), a bifunctional or multifunctional entity that connects the PROTAC moieties (D) to the antibody, allowing for the construction of the PAC through reactive functionalities. 3. The PROTAC (D), central to the PAC's mechanism, targeting specific cellular proteins for degradation to exert a therapeutic effect. These components are carefully engineered to ensure potent efficacy and a desirable therapeutic index of the PAC.

Solubility Information

Solubility	DMSO: 100 mg/mL (59.7 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (1.19 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.597 mL	2.9851 mL	5.9703 mL
5 mM	0.1194 mL	0.597 mL	1.1941 mL
10 mM	0.0597 mL	0.2985 mL	0.597 mL
50 mM	0.0119 mL	0.0597 mL	0.1194 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

Thomas Pillow, et al. Protac antibody conjugates and methods of use. WO2017201449A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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