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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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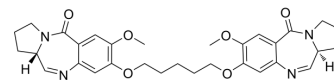
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PBD dimer-2

Cat. No.:	HY-148424
CAS No.:	145325-57-1
Molecular Formula:	C ₃₁ H ₃₆ N ₄ O ₆
Molecular Weight:	560.64
Target:	ADC Cytotoxin
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 130 mg/mL (231.88 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7837 mL	8.9184 mL	17.8368 mL
	5 mM	0.3567 mL	1.7837 mL	3.5674 mL
	10 mM	0.1784 mL	0.8918 mL	1.7837 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PBD dimer-2 (compound 2c) is a C8-linked pyrrolobenzodiazepine dimer. PBD dimer-2 can span an extra base pair and cross-link the 5'-Pu-GA(T/A)TC-Py sequence. PBD dimer-2 can be used as a payload for antibody-agent conjugates (ADCs), and it can be used for the research of cancer^{[1][2]}.

REFERENCES

[1]. Smellie M, et al. Sequence-selective recognition of duplex DNA through covalent interstrand cross-linking: kinetic and molecular modeling studies with pyrrolobenzodiazepine dimers. *Biochemistry*. 2003 Jul 15;42(27):8232-9.

[2]. Staben LR, et al. Systematic Variation of Pyrrolobenzodiazepine (PBD)-Dimer Payload Physicochemical Properties Impacts Efficacy and Tolerability of the Corresponding Antibody-Drug Conjugates. *J Med Chem*. 2020 Sep 10;63(17):9603-9622.

Caution: Product has not been fully validated for medical applications. For research use only.

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