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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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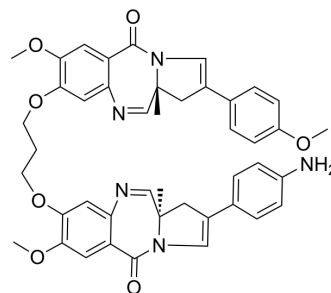
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Dimethyl-SGD-1882

Cat. No.:	HY-126678
CAS No.:	3026416-27-0
Molecular Formula:	C ₄₄ H ₄₃ N ₅ O ₇
Molecular Weight:	753.84
Target:	ADC Cytotoxin
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dimethyl-SGD-1882 (Dimethyl-PBD dimer) is a highly potent DNA alkylator, and is used as an antibody-drug conjugate (ADC) cytotoxin. PBD Dimer is a DNA alkylator which inhibits DNA replication ^[1] .
IC ₅₀ & Target	Pyrrolobenzodiazepines
In Vitro	The unique structure of the pyrrolobenzodiazepine (PBD) dimers which contain two alkylating imine functionalities allows them to form interstrand or intrastrand DNA cross-links in addition to mono-alkylated adducts, thus resulting in greater DNA stabilization compared to monomeric PBDs. Due to the additional types of DNA adducts possible and the greater adduct stability, the C8-linked PBD dimers generally have significantly greater cytotoxicity, antitumor activity and antibacterial activity compared to PBD monomers, and one such agent, SJG-136, has reached Phase II clinical trials in ovarian cancer and leukaemia. Furthermore, related PBD dimers are now being used as payloads for antibody-drug conjugates (ADCs) due to their significant cytotoxicity^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mantaj J, et al. From Anthramycin to Pyrrolobenzodiazepine (PBD)-Containing Antibody-Drug Conjugates (ADCs). Angew Chem Int Ed Engl. 2017 Jan 9;56(2):462-488.

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

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