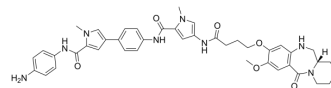


Aniline-MPB-amino-C3-PBD

Cat. No.:	HY-135900
CAS No.:	2412923-79-4
Molecular Formula:	C ₄₂ H ₄₆ N ₈ O ₆
Molecular Weight:	758.86
Target:	ADC Cytotoxin; Bacterial
Pathway:	Antibody-drug Conjugate/ADC Related; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Aniline-MPB-amino-C3-PBD is a cytotoxic agent comprised non-alkylating group. Aniline-MPB-amino-C3-PBD is a sequence-selective DNA minor-groove binding agent. Aniline-MPB-amino-C3-PBD acts as the payload for ADCs. Antimicrobial activity ^[1] .
IC₅₀ & Target	Pyrrrolobenzodiazepines
In Vitro	Aniline-MPB-amino-C3-PBD (compound 16) shows cytotoxicity with IC ₅₀ s of 77, 72, 79, 184.3, 61.5, and 145.6 nM for SW48, LIM1215, SW620, U138-MG, A431, and REH cells, respectively. Aniline-MPB-amino-C3-PBD effectively stabilises DNA with a degree of sequence-specificity. Aniline-MPB-amino-C3-PBD possesses potent anti-bacterial effects against the gram negative strain E. coli K12 with potency of 2 pg/mL determined ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. David Edwin Thurston, et al. Polycyclic amides as cytotoxic agents. WO2020049286A1.

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

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