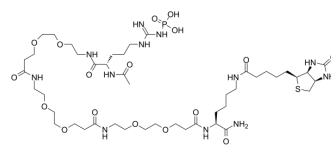


BacPROTAC-1

Cat. No.:	HY-153575
Molecular Formula:	C ₄₅ H ₈₃ N ₁₂ O ₁₇ PS
Molecular Weight:	1127.25
Target:	PROTACs; Bacterial
Pathway:	PROTAC; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BacPROTAC-1 is a mSA BacPROTAC degrader. BacPROTAC-1 binds mSA and Clp _{CNTD} with high affinity (K _D s of 3.9 and 2.8 μM, respectively) ^[1] .
IC ₅₀ & Target	KD: 2.8 μM (Clp _{CNTD}), 3.9 μM (mSA) ^[1]
In Vitro	<p>mSA alone and mSA fusion proteins (mSA-NrdI, mSA-TagD, mSA-NusA, mSA-Kre) are degraded by ClpCP in a BacPROTAC-1-dependent manner (1-100 μM; 2 h). The degradation is ATP dependent and pArg or biotin blocks the BacPROTAC-1 induced degradation^[1].</p> <p>BacPROTAC-1 induces formation of an active ClpC oligomer^[1].</p> <p>BacPROTAC-1 (1-100 μM) can reprogram the mycobacterial ClpC1P1P2^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Morreale FE, et al. BacPROTACs mediate targeted protein degradation in bacteria. Cell. 2022 Jun 23;185(13):2338-2353.e18.

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

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