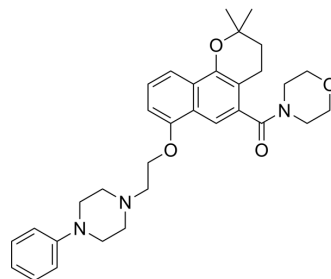


AcrB-IN-1

Cat. No.:	HY-149809
CAS No.:	2890177-82-7
Molecular Formula:	C ₃₂ H ₃₉ N ₃ O ₄
Molecular Weight:	529.67
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AcrB-IN-1 (Compound H6) is a potent AcrB inhibitor. AcrB-IN-1 can be used for the reversal of bacterial multidrug resistance [1].
In Vitro	AcrB-IN-1 (Compound H6) is able to reduce the MIC value of tested antibacterial (Erythromycin HY-B0220, Levofloxacin HY-B0330, Minocycline HY-17412A) at sub-MIC concentrations (8-128 µg/mL) against the Escherichia coli strain BW25113 ^[1] . AcrB-IN-1 (64 µg/mL) is shown to not disrupt the bacterial inner membrane ^[1] . AcrB-IN-1 completely abolishes the Nile Red (a known substrate of AcrB) efflux at a concentration of 50 µM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Guo T, et al. Design and synthesis of benzochromene derivatives as AcrB inhibitors for the reversal of bacterial multidrug resistance. Eur J Med Chem. 2023 Mar 5;249:115148.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA