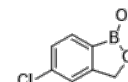


Product Name : AN2718
Cat. No. : PC-22624
CAS No. : 174672-06-1
Molecular Formula : C₇H₆BClO₂
Molecular Weight : 168.38
Target : Bacterial
Solubility : 10 mM in DMSO



Biological Activity

AN2718 is a small molecule inhibitor of the catalytic activity of the *Klebsiella pneumoniae* carbapenemase (KPC-2) enzyme with IC₅₀ of 0.5 μM and ITC K_d of 86.3 nM, exhibit synergistic antimicrobial effect with Meropenem.

AN2718 is an effective antimicrobial agent that can eradicate KPC-2 strains in vitro.

AN2718 can disrupt the homeostasis of energy metabolism by altering the NAD/NADH ratio and affecting ATP production, thereby blocking bacteria from growing.

AN2718 restores the antimicrobial activity of Meropenem in the treatment of carbapenem resistant infections in vivo.

References

Tang Y, et al. Int J Antimicrob Agents. 2024 Jul 5:107268.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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