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Product Datasheet

PK150, CAS [[2165324-62-7]] FBM-10-3960

Article Name	PK150, CAS [[2165324-62-7]]
Biozol Catalog Number	FBM-10-3960
Supplier Catalog Number	10-3960
Alternative Catalog Number	FBM-10-3960-10MG,FBM-10-3960-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Sorafenib analog with unique antibacterial properties...
Molecular Weight	394.68
Purity	99% by HPLC NMR (Conforms)
Form	White solid
CAS Number	[2165324-62-7]
Formula	C15H8ClF5N2O3

Application Notes	PK150 is a Sorafenib analog that displays significant antibacterial activity against several pathogenic strains (<i>S.aureus</i> NCTC8325, MIC = 0.3 μM, vancomycin -resistant enterococci, MIC = 3 μM, and <i>M.tuberculosis</i> MIC = 2 μM). It was inactive against Gram-negative bacteria. It effectively reduced persister cells in ciprofloxacin-treated stationary <i>S.aureus</i> cultures and effectively eradicated staphylococcus biofilms. PK150 did not develop antibacterial resistance in an agar-plate-based assay. Its antibacterial properties were attributed to demethylmenaquinone methyltransferase (MenG) inhibition and signal peptidase IB (SpsB) activation. PK150 displayed in vivo efficacy in a murine bloodstream infection model against methicillin-sensitive <i>S. aureus</i> and a neutropenic mouse thigh model against methicillin-resistant <i>S. aureus</i> strain ATCC33591. Inactive against a panel of over 250 human kinases.
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