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Product Datasheet

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

Artikelname	PK150, CAS [[2165324-62-7]]
Artikelnummer	FBM-10-3960
Hersteller Artikelnummer	10-3960
Alternativnummer	FBM-10-3960-10MG,FBM-10-3960-50MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Sorafenib analog with unique antibacterial properties...
Molekulargewicht	394.68
Reinheit	99% by HPLC NMR (Conforms)
Formulierung	White solid
CAS Nummer	[2165324-62-7]
Formel	C15H8ClF5N2O3

Anwendungsbeschreibung	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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