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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 (*S.aureus* NCTC8325, MIC = 0.3  $\mu$ M, vancomycin -resistant enterococci, MIC = 3  $\mu$ M, and *M.tuberculosis* MIC = 2  $\mu$ M). It was inactive against Gram-negative bacteria. It effectively reduced persister cells in ciprofloxacin-treated stationary *S.aureus* 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 *S. aureus* and a neutropenic mouse thigh model against methicillin-resistant *S. aureus* strain ATCC33591. Inactive against a panel of over 250 human kinases.