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Product Datasheet

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

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| 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 |

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| Anwendungsbeschreibung | <p>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.</p> |
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