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Product Datasheet

CC-90009, CAS [[1860875-51-9]]

FBM-10-3922

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| Article Name | CC-90009, CAS [[1860875-51-9]] |
| Biozol Catalog Number | FBM-10-3922 |
| Supplier Catalog Number | 10-3922 |
| Alternative Catalog Number | FBM-10-3922-5MG, FBM-10-3922-25MG |
| Manufacturer | Focus Biomolecules |
| Category | Biochemikalien |
| Product Description | Cereblon modulator/Molecular glue... |
| Molecular Weight | 461.85 |
| Purity | >98% by HPLC , NMR (Conforms) |
| Form | White solid |
| CAS Number | [1860875-51-9] |
| Formula | C22H18ClF2N3O4 |

Application Notes

CC-90009 is a modulator of the cullin ring ligase 4-cereblon E3 ubiquitin ligase complex that specifically targets GSPT1 (G1 to S phase transition 1, EC50 = 9 nM, also known as eRF3a) instead of Ikaros (IKZF1) and Aiolos (IKZF3).¹ It rapidly induced apoptosis and reduced leukemia engraftment and leukemia stem cells across a wide spectrum of acute myeloid leukemia xenograft patient samples including refractory/relapsed cases.² The anti-AML activity of CC-90009 was shown to be regulated by multiple signaling pathways including the ILF/ILF3 complex, mTOR, and the integrated stress response. CC-90009 was able to potentiate premature termination codon (PTC, 11% of all genetic lesions in patients with inherited diseases contain this type of mutation) readthrough by aminoglycosides via degradation of eukaryotic release factors 1 (eRF1) and 3 (eRF3a/b) in various heritable disease models.³ It was also able to enhance aminoglycoside PTC readthrough of the mutated retinoblastoma (RB1) gene in MDA-MB-436 breast carcinoma cells and SW1783 astrocytoma cells.⁴