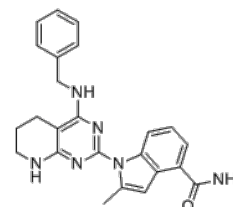


Product Name : CB5339
Cat. No. : PC-72409
CAS No. : 1863952-15-1
Molecular Formula : C₂₄H₂₄N₆O
Molecular Weight : 412.497
Target : p97/VCP
Solubility : 10 mM in DMSO



Biological Activity

CB5339 (CB-5339) is a second-generation, potent, selective, ATP-competitive, and oral inhibitor of valosin-containing protein (**VCP/p97**) with IC₅₀ of 9 nM.

CB-5339 was 15-fold less active on the human cone PDE6 (PDE6C, IC₅₀=3900 nM) in in vitro biochemical assays, and displayed a 31-times lower C_{max} in vivo in rat retina compared to CB-5083.

CB5339 demonstrated growth inhibition against a panel of 16 AML cell lines and a panel of 16 primary AML patient samples harboring diverse genetic backgrounds (mean IC₅₀ =375 nM).

CB5339 was validated in multiple AML models, including syngeneic and patient-derived xenograft murine models.

CB-5339 treatment synergizes to impair leukemic growth in an MLL-AF9-driven AML murine model when combined with DNA-damaging agents anthracyclines.

References

Blandine Roux, et al. *Sci Transl Med*. 2021 Mar 31;13(587):eabg1168.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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