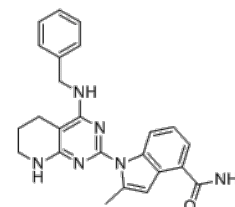


**Product Name** : CB5339  
**Cat. No.** : PC-72409  
**CAS No.** : 1863952-15-1  
**Molecular Formula** : C<sub>24</sub>H<sub>24</sub>N<sub>6</sub>O  
**Molecular Weight** : 412.497  
**Target** : p97/VCP  
**Solubility** : 10 mM in DMSO



## Biological Activity

CB5339 (CB-5339) is a second-generation, potent, selective, ATP-competitive, and oral inhibitor of valosin-containing protein (**VCP/p97**) with IC<sub>50</sub> of 9 nM.

CB-5339 was 15-fold less active on the human cone PDE6 (PDE6C, IC<sub>50</sub>=3900 nM) in in vitro biochemical assays, and displayed a 31-times lower C<sub>max</sub> 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 IC<sub>50</sub> =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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