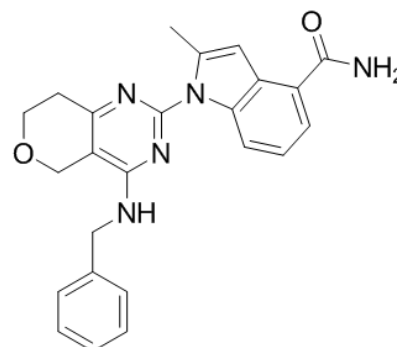


Product Name : CB-5083
Cat. No. : PC-43263
CAS No. : 1542705-92-9
Molecular Formula : C₂₄H₂₃N₅O₂
Molecular Weight : 413.4717
Target : p97/VCP
Solubility : 10 mM in DMSO



Biological Activity

CB-5083 is a potent, selective, orally bioavailable inhibitor of **p97** AAA with IC₅₀ of 11 nM, specifically targets D2 ATPase site of p97, shows 9.6, 128 and 158-fold less affinity for DNA-PK, mTOR and PIK3C3.

CB-5083 causes accumulation of poly-ubiquitinated proteins, retention of ERAD substrates, and generation of irresolvable proteotoxic stress, leading to activation of the apoptotic arm of the unfolded protein response (UPR) in cancer cells.

CB-5083 inhibits A549 cell viability with IC₅₀ of 0.67 μM, induces the UPR and apoptosis in xenograft tumor models.

References

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Le Moigne R, et al. *Mol Cancer Ther*. 2017 Nov;16(11):2375-2386.

Bastola P, et al. *Mol Oncol*. 2016 Dec;10(10):1559-1574.

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

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