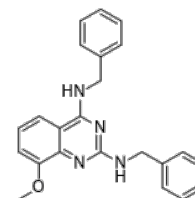


Product Name : VPS4 inhibitor 4-107
Cat. No. : PC-24320
CAS No. : 1346527-45-4
Molecular Formula : C₂₃H₂₂N₄O
Molecular Weight : 370.46
Target : p97/VCP
Solubility : 10 mM in DMSO



CAS: 1346527-45-4

Biological Activity

VPS4 inhibitor 4-107 is a DBEq derivative and vacuolar protein sorting 4 (**VPS4**) AAA-ATPase inhibitor (IC₅₀=3.7 μM, VPS4B), inhibits VPS4 ATPase activity, induces CASP8-mediated apoptosis.

VPS4 inhibitor 4-107 is modestly selective for VPS4B in vitro over VCP (IC₅₀=8.6 μM).

VPS4 inhibitor 4-107 (1 μM) does not induce ER stress or the accumulation of polyubiquitinated proteins, unlike CB-5083.

VPS4 inhibitor 4-107 exhibits improved cellular potency and selectivity for VPS4 compared with DBEq.

4-107 induces ESCRT accumulation on LC3-positive autophagosomal membranes.

4-107 exhibits lysosomotropic properties and disrupts endolysosomal membrane integrity.

4-107 induces CASP8-mediated VPS4-sensitive cell death

4-107 (5 mg/kg/day, i.p.) suppresses tumor growth in syngeneic mouse model of neuroblastoma, without causing severe toxicity in mice.

References

Fundora KA, et al. *J Pharmacol Exp Ther.* 2025 Feb 28;392(4):103524.

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

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