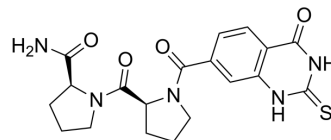


NW 1028

Cat. No.:	HY-148122
CAS No.:	2749599-78-6
Molecular Formula:	C ₁₉ H ₂₁ N ₅ O ₄ S
Molecular Weight:	415.47
Target:	p97
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NW 1028 is a potent VCP/p97 inhibitor. NW 1028 targets the ND1L domain of p97 and inhibits the degradation of a p97-dependent reporter. NW 1028 has good binding affinity with K _d values of 100 and 285 nM for ND1L and full length p97, respectively. NW 1028 has the function of regulating the mitotic spindle of cells ^[1] .
In Vitro	NW1028 (0.1-10 μM) inhibits the ATPase activity of the D1 domain and do not impact the ATPase activity of the D2 domain ^[1] . NW1028 (0.0001-100 μM; 72 h; HeLa K cells) does not cause cell death and does not activate the UPR response ^[1] . NW1028 (10 μM; HeLa cells) affects the orientation of the mitotic spindle. NW1028 has a spindle orientation defect in the z axis with 53.9%, compared to 14.9% cells in control conditions ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Figuerola-Conchas A, et, al. Small-Molecule Modulators of the ATPase VCP/p97 Affect Specific p97 Cellular Functions. ACS Chem Biol. 2020 Jan 17;15(1):243-253.

Caution: Product has not been fully validated for medical applications. For research use only.

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