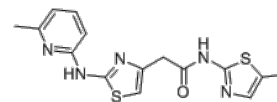


Product Name : HQ461
Cat. No. : PC-21053
CAS No. : 1226443-41-9
Molecular Formula : C₁₅H₁₅N₅OS₂
Molecular Weight : 345.44
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



CAS: 1226443-41-9

Biological Activity

HQ461 is a molecular glue promoting CDK12-DDB1 interaction to trigger cyclin K degradation, exhibits potent cytotoxicity to NSCLC cell line A549 with with IC₅₀ of 1.3 μM.

HQ461 acts by promoting an interaction between CDK12 and DDB1-CUL4-RBX1 E3 ubiquitin ligase, leading to polyubiquitination and degradation of CDK12-interacting protein Cyclin K (CCNK).

HQ461 is a new molecular glue that recruits its target protein directly to DDB1 to bypass the requirement of a substrate-specific receptor, presenting a new strategy for targeted protein degradation.

References

Lu Lv, et al. Elife. 2020 Aug 17;9:e59994. doi: 10.7554/eLife.59994.

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

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