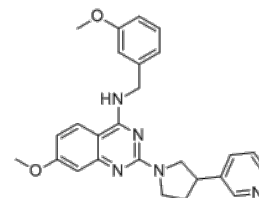


Product Name : Miclxin
Cat. No. : PC-38409
CAS No. : 2494198-61-5
Molecular Formula : C₂₆H₂₇N₅O₂
Molecular Weight : 441.535
Target : Beta-catenin
Solubility : 10 mM in DMSO



Biological Activity

Miclxin (DS37262926) is a small molecule inhibitor of **MICOS** component **MIC60**, induces mitochondrial stress response in a mutant β -catenin-dependent manner in β -catenin-mutated HCT116 cells, directly binds to mitochondrial inner membrane complex protein MIC60 (SPR K_d=11.9 μ M).

Miclxin (DS37262926) exhibits selective induction of apoptosis in **β -catenin**-mutated HCT116 cells, which harbor deletion mutant of Ser45. Mutation at Ser45 of β -catenin is detected not only in colorectal tumor but in hepatocellular, prostate and uterine tumors. Miclxin-mediated MIC60 dysfunction induced mitochondrial stress response, leading to apoptosis-inducing factor (AIF)-dependent apoptosis.

References

Hiroaki Ikeda, et al. **ACS Chem Biol.** 2020 Aug 21;15(8):2195-2204.

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

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