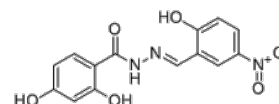


Product Name : WQ-2101
Cat. No. : PC-35907
CAS No. : 304481-72-9
Molecular Formula : C₁₄H₁₁N₃O₆
Molecular Weight : 317.257
Target : PHGDH
Solubility : 10 mM in DMSO



Biological Activity

WQ-2101 (WQ2101, PKUMDL-WQ-2101) is a specific, allosteric inhibitor of **PHGDH** with IC₅₀ of 34.8 uM (WT PHGDH), shows dramatically reduced potency for mutants R134A (IC₅₀ =141 uM) and K57AT59A (IC₅₀=128 uM).

WQ-2101 binds to allosteric site I, inhibits the serine biosynthesis pathway in cells.

WQ-2101 shows dose-dependent suppression effects on the cell viability at micromolar concentrations, with good selectivity for PHGDH amplified breast cancer cell lines (MDA-MB-468 and HCC70 IC₅₀= 7.70 and 10.8 uM).

WQ-2101 selectively inhibit de novo serine synthesis in cancer cells, and reduce tumor growth in vivo.

References

Reid MA, et al. *Nat Commun.* 2018 Dec 21;9(1):5442.

Wang Q, et al. *Cell Chem Biol.* 2017 Jan 19;24(1):55-65.

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

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