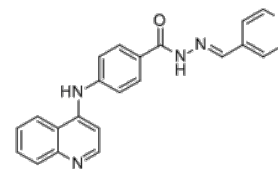


Product Name : 4-PQBH
Cat. No. : PC-21508
CAS No. : 2243355-51-1
Molecular Formula : C₂₂H₁₇N₅O
Molecular Weight : 367.41
Target : Nur77 (NR4A1)
Solubility : 10 mM in DMSO



CAS: 2765240-30-8

Biological Activity

4-PQBH is a small molecule **Nur77**-mediated cytoplasmic vacuolation and paraptosis inducer, binds to Nur77 (KD=1.17 uM) and shows potentially selective cytotoxicity to HCC cells.

4-PQBH extensively induces caspase-independent cytoplasmic vacuolization and paraptosis through Nur77-mediated ER stress and autophagy.

4-PQBH exhibits potent anti-HCC activity (HepG2 cells, IC₅₀=2.6 uM) and is low toxic to normal LO2 cells (IC₅₀=17.32 uM).

4-PQBH effectively inhibits tumor growth in HepG2 xenografted model in immunodeficient mice.

4-PQBH targets Nur77 to endoplasmic reticulum (ER) and induces Nur77-mediated ER stress as well as autophagy, resulting in cytoplasmic vacuolation and paraptosis-like cell death.

References

Baicun Li, et al. *Bioorg Chem.* 2022 Apr:121:105651.

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

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