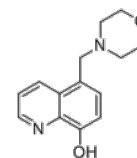


Product Name : 5M-8OH-Q
Cat. No. : PC-21254
CAS No. : 312611-90-8
Molecular Formula : C₁₄H₁₆N₂O₂
Molecular Weight : 244.29
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

5M-8OH-Q is a specific small molecule inhibitor of UDP-glucose glycoprotein glucosyltransferase (UGGT), binds a CtUGGTGT24 "WY" conserved surface motif conserved across UGGTs (K_d=47 μM) but not present in other GT24 family glycosyltransferases.

5M-8OH-Q inhibits both UGGT1 and UGGT2 in cellula.

5M-8OH-Q is a useful starting point for the synthesis of UGGT modulator for the treatment of diseases caused by responsive mutants, as persistent UGGT-mediated glucosylation may prevent trafficking of slightly misfolded, but otherwise functional, glycoproteins to their correct cellular locations.

References

Kevin P Guay, et al. iScience. 2023 Sep 20;26(10):107919.

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

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