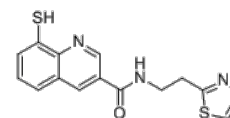


Product Name : Capzimin
Cat. No. : PC-60898
CAS No. : 2084867-65-0
Molecular Formula : C₁₅H₁₃N₃OS₂
Molecular Weight : 315.409
Target : Proteasome
Solubility : 10 mM in DMSO



Biological Activity

Capzimin (Rpn11 inhibitor 3027) is a derivative of 8TQ, and potent and specific inhibitor of **proteasome isopeptidase Rpn11 (PSMD14)** with IC₅₀ of 0.34 μ M, >7-fold improved potency over 8TQ (quinoline-8-thiol). Capzimin shows >5-fold selectivity for Rpn11 over the related JAMM proteases and >2 logs less activity towards metalloenzymes (HDAC6, MMP2, MMP12, and carbonic anhydrase II).

Capzimin stabilizes proteasome substrates, induced an unfolded protein response, and blocks proliferation of cancer cells (HCT116 GI₅₀=2.0 μ M), including bortezomib-resistant retinal pigment epithelial cells.

References

Li J, et al. *Nat Chem Biol.* 2017 May;13(5):486-493.

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

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