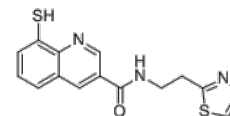


**Product Name** : Rpn11 inhibitor 3027  
**Cat. No.** : PC-60898  
**CAS No.** : 2084867-65-0  
**Molecular Formula** : C<sub>15</sub>H<sub>13</sub>N<sub>3</sub>OS<sub>2</sub>  
**Molecular Weight** : 315.409  
**Target** : Proteasome  
**Solubility** : 10 mM in DMSO



### Biological Activity

Capzimin (Rpn11 inhibitor 3027) is a derivative of 8TQ, and potent and specific inhibitor of **proteasome isopeptidase Rpn11 (PSMD14)** with IC<sub>50</sub> of 0.34 uM, >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 GI<sub>50</sub>=2.0 uM), 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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