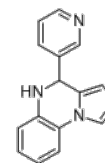


**Product Name** : UBCS039  
**Cat. No.** : PC-35856  
**CAS No.** : 358721-70-7  
**Molecular Formula** : C<sub>16</sub>H<sub>13</sub>N<sub>3</sub>  
**Molecular Weight** : 247.301  
**Target** : Sirtuin  
**Solubility** : 10 mM in DMSO



### Biological Activity

UBCS039 (UBCS-039) is the first synthetic activator of the NAD<sup>+</sup>-dependent protein lysine deacetylase **SIRT6** with EC<sub>50</sub> of 38 uM.

UBCS039 shows robust activating effects on Sirt6-dependent H3K18ac deacetylation of full-length histone proteins and complete HeLa nucleosomes, with no statistically significant effects on basal Sirt1, 2, and 3 deacetylation activities. UBCS039 induces autophagosome accumulation and promotes autophagic flux in human cancer cells, triggers ROS accumulation and activates the AMPK/ULK1 signaling pathway.

### References

You W, et al. *Angew Chem Int Ed Engl*. 2017 Jan 19;56(4):1007-1011.

Iachettini S, et al. *Cell Death Dis*. 2018 Sep 24;9(10):996.

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

E-mail: tech@probechem.com