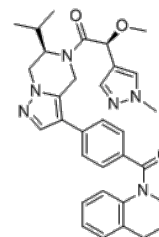


Product Name : BIO-2007817
Cat. No. : PC-72861
CAS No. :
Molecular Formula : C₃₂H₃₆N₆O₃
Molecular Weight : 552.679
Target : E3 Ubiquitin Ligase
Solubility : 10 mM in DMSO



Biological Activity

BIO-2007817 is a small-molecule positive allosteric modulator of **Parkin E3 ligase** with EC₅₀ of 0.17 uM (TR-FRET). BIO-2007817 stimulated Parkin autoubiquitination as measured by Western blots in a concentration-dependent manner, was also able to induce the appearance of monoubiquitinated forms of Miro1. BIO-2007817 induced the appearance of slower-migrating Parkin species in a concentration-dependent manner with maximal efficacy at 20 uM in Parkin autoubiquitination assay. BIO-2007817 does not affect the rate of Parkin translocation to mitochondria nor the number of mitochondria within lysosomes.

References

- Shlevkov E, et al. *iScience*. 2021 Dec 18;25(1):103650.
- Sauvé V, et al. *Nat Commun*. 2024 Sep 19;15(1):7707.

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

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