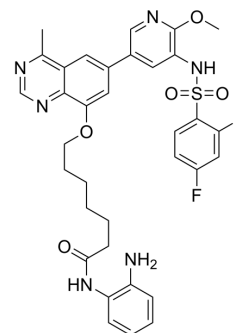


## PI3K/HDAC-IN-3

Cat. No.:	HY-157295
CAS No.:	3006905-22-9
Molecular Formula:	C <sub>34</sub> H <sub>34</sub> F <sub>2</sub> N <sub>6</sub> O <sub>5</sub> S
Molecular Weight:	676.73
Target:	PI3K; HDAC
Pathway:	PI3K/Akt/mTOR; Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

PI3K/HDAC-IN-3 (36) is a PI3K and HDAC dual inhibitor, with IC<sub>50</sub> values of 0.23 nM and 172 nM for PI3K $\alpha$  and HDAC1, respectively. PI3K/HDAC-IN-3 (36) suppresses AKT phosphorylation and increased H3 acetylation in MV4-11 cells. PI3K/HDAC-IN-3 (36) exhibits significant and dose-dependent anticancer efficacy in a MV4-11 xenograft model<sup>[1]</sup>.

### REFERENCES

[1]. Kehui Zhang, et al. Rational design and optimization of novel 4-methyl quinazoline derivatives as PI3K/HDAC dual inhibitors with benzamide as zinc binding moiety for the treatment of acute myeloid leukemia. *Eur J Med Chem.* 2023 Nov 30;264:116015.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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