# AKT-IN-2

**Cat. No.:** HY-112148

**CAS No.:** 1295514-91-8

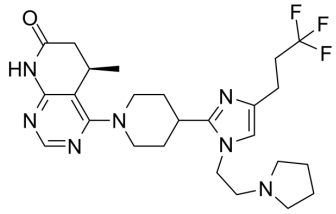
**Molecular Formula:** $C_{25}H_{34}F_3N_7O$

**Molecular Weight:** 505.58

**Target:** Akt

**Pathway:** PI3K/Akt/mTOR

**Storage:** Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

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|---|---|---|---|---|
| **Description** | AKT-IN-2 is a potent, selective and orally bioavailable AKT inhibitor with an $IC_{50}$ of 5 nM for AKT1[1]. | | | |
| **$IC_{50}$ & Target** | Akt1<br>5 nM ($IC_{50}$) | P70S6K<br>399 nM ($IC_{50}$) | PKA<br>84 nM ($IC_{50}$) | PKCβ2<br>3.98 μM ($IC_{50}$) |
| | RSK1<br>568 nM ($IC_{50}$) | pGSK3β<br>92 nM ($IC_{50}$) | | |
| **In Vitro** | AKT-IN-2 (Compound 8) also inhibits P70S6K, PKA, PKCβ2, RSK1, and pGSK3β with $IC_{50}$s of 0.399, 0.084, 3.98, 0.568, and 0.092 μM, respectively[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | | |

## REFERENCES

[1]. Parthasarathy S, et al. Discovery of chiral dihydropyridopyrimidinones as potent, selective and orally bioavailable inhibitors of AKT. Bioorg Med Chem Lett. 2018 Jun 1;28(10):1887-1891.



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