# TIM-063

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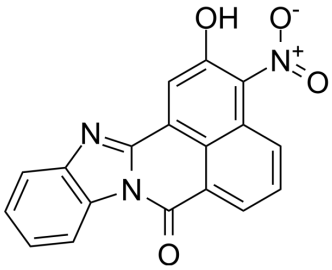
| **Cat. No.:** | HY-148757 |
| **CAS No.:** | 2493978-38-2 |
| **Molecular Formula:** | $C_{18}H_9N_3O_4$ |
| **Molecular Weight:** | 331.28 |
| **Target:** | CaMK |
| **Pathway:** | Neuronal Signaling |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |




## BIOLOGICAL ACTIVITY

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| **Description** | TIM-063 is a selective and cell-permeable CaMKK inhibitor, ATP competitive inhibitor, can directly target the catalytic domain of CaMKK, with the $K_i$ values of 0.35 μM and 0.2 μM for CaMKKα and CaMKKβ, respectively, the $IC_{50}$ values are 0.63 μM and 0.96 μM, respectively[1]. |
| **In Vitro** | TIM-063 (0-29 μM, 6 h) dose-dependently inhibits endogenous CaMKK activity in HeLa cells and also inhibits CaMKK isoform-catalyzed phosphorylation of CaMKIV in transfected COS-7 cells[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

## REFERENCES

[1]. Satomi Ohtsuka, et al. Development and Characterization of Novel Molecular Probes for Ca2+/Calmodulin-Dependent Protein Kinase Kinase, Derived from STO-609. Biochemistry. 2020 May 5;59(17):1701-1710.



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