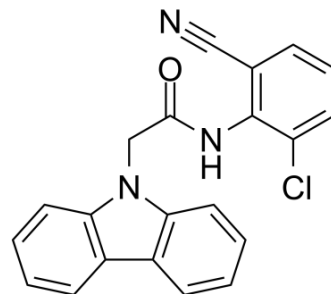


## KL044

<b>Cat. No.:</b>	HY-119506
<b>CAS No.:</b>	1801856-93-8
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>14</sub> ClN <sub>3</sub> O
<b>Molecular Weight:</b>	359.81
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	KL044, a stabilizer of the clock protein cryptochrome (CRY), is a potent chemical probe with a pEC <sub>50</sub> value of 7.32, leading to the extension of the circadian period and repression of Per2 activity <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	pEC <sub>50</sub> : 7.32 <sup>[1]</sup>
<b>In Vitro</b>	KL044 (0-3.7 μM; 8 h) effectively stabilizes the CRY1-LUC fusion protein without affecting the stability of LUC in the HEK293 stable cell line <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Jae Wook Lee, et al. Development of Small-Molecule Cryptochrome Stabilizer Derivatives as Modulators of the Circadian Clock. ChemMedChem. 2015 Sep;10(9):1489-97.

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

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