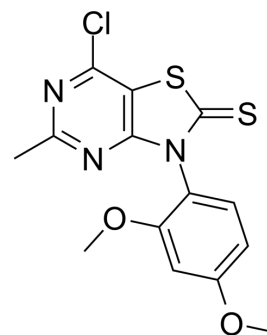


## CDK1/Cyc B-IN-1

Cat. No.:	HY-147646
CAS No.:	2459916-56-2
Molecular Formula:	C <sub>14</sub> H <sub>12</sub> ClN <sub>3</sub> O <sub>2</sub> S <sub>2</sub>
Molecular Weight:	353.85
Target:	CDK; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	CDK1/Cyc B-IN-1 (Compound 5) is a selective CDK1/Cyc B complex inhibitor with an IC <sub>50</sub> of 97 nM. CDK1/Cyc B-IN-1 triggers apoptosis and G2/M cell cycle arrest. CDK1/Cyc B-IN-1 shows broad-spectrum cytotoxic action against cancer cell lines <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	CDK1-Cyclin B 97 nM (IC <sub>50</sub> )
<b>In Vitro</b>	CDK1/Cyc B-IN-1 (Compound 5) shows cytotoxic activity with IC <sub>50</sub> values of 5.33 ± 0.69 μM and 21.69 ± 1.04 μM against HCT-116 and WI-38, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Mohamed SH, et al. An investigative study of antitumor properties of a novel thiazolo[4,5-d]pyrimidine small molecule revealing superior antitumor activity with CDK1 selectivity and potent pro-apoptotic properties. *Bioorg Med Chem*. 2020 Sep 1;28(17):115633.

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

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