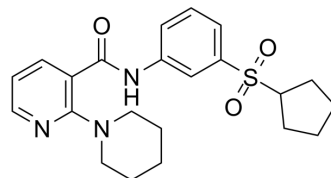


## KIF18A-IN-4

Cat. No.:	HY-145827
CAS No.:	1197522-21-6
Molecular Formula:	C <sub>22</sub> H <sub>27</sub> N <sub>3</sub> O <sub>3</sub> S
Molecular Weight:	413.53
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	KIF18A-IN-4 is a moderately potent ATP and microtubule (MT) noncompetitive KIF18A inhibitor (IC <sub>50</sub> =6.16 μM). KIF18A-IN-4 has selectivity against a large panel of mitotic kinesins and kinases, and does not show any direct effects on tubulin assembly. KIF18A-IN-4 exhibits anti-tumor activity <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 6.16 μM (KIF18A) <sup>[1]</sup>
<b>In Vitro</b>	KIF18A-IN-4 (15 μM; 24 hours) induces a phenotype characterized by multipolar spindle arrays emanating from multiple pericentriolar material (PCM) centers in mitotic MDA-MB-157 cells (pH3+) <sup>[1]</sup> . KIF18A-IN-4 (0-10 μM; overnight) has an EC <sub>50</sub> of 6.35 μM in OVCAR-3 cells by the mitotic index assay <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Tamayo NA, et al. Targeting the Mitotic Kinesin KIF18A in Chromosomally Unstable Cancers: Hit Optimization Toward an In Vivo Chemical Probe. J Med Chem. 2022;65(6):4972-4990.

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

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