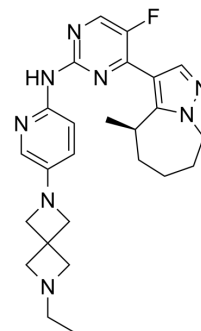


## CDK4/6-IN-3

Cat. No.:	HY-126244
CAS No.:	2366237-37-6
Molecular Formula:	C <sub>25</sub> H <sub>31</sub> FN <sub>8</sub>
Molecular Weight:	462.57
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	CDK4/6-IN-3 is a brain-penetrant CDK4/CDK6 inhibitor with K <sub>i</sub> s of <0.3 nM and 2.2 nM, respectively. CDK4/6-IN-3 inhibits CDK1 with a K <sub>i</sub> of 110 nM. CDK4/6-IN-3 can be used for the treatment of glioblastoma <sup>[1]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	CDK4 0.3 nM (K <sub>i</sub> )	CDK6 2.2 nM (K <sub>i</sub> )	CDK1 110 nM (K <sub>i</sub> )
<b>In Vitro</b>	CDK4/6-IN-3 (Compound 24) inhibits MCF7 and BT549 cell lines proliferation with EC <sub>50</sub> s of 30 nM and 2.1 μM, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

### REFERENCES

[1]. Bronner SM, et al. Design of a brain-penetrant CDK4/6 inhibitor for glioblastoma. *Bioorg Med Chem Lett*. 2019 Aug 15;29(16):2294-2301.

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

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