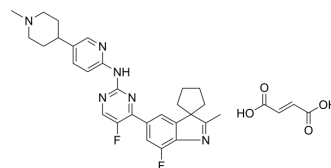


## Crozbaciclub fumarate

<b>Cat. No.:</b>	HY-112280A
<b>CAS No.:</b>	2567494-39-5
<b>Molecular Formula:</b>	C <sub>32</sub> H <sub>34</sub> F <sub>2</sub> N <sub>6</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	604.65
<b>Target:</b>	CDK
<b>Pathway:</b>	Cell Cycle/DNA Damage
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Crozbaciclub fumarate is a CDK4/6 inhibitor with IC <sub>50</sub> s of 3 and 1 nM, respectively.
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 3 nM (CDK4), 1 nM (CDK6) <sup>[1]</sup>
<b>In Vitro</b>	Crozbaciclub fumarate is a potent anti-proliferative agent that arrests U87MG cell line exclusively in G1 (IC <sub>50</sub> =15.3 ± 2.9 nM in the anti-proliferation assay). Crozbaciclub fumarate (13.72 nM; 24 h) significantly increases in the percentage of cells in G1 in U87MG cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Crozbaciclub fumarate (3.125-50 mg/kg) has tumor growth inhibition values ranging from 62% to 99% in an orthotopic xenograft mouse model of glioblastoma multiforme. And Crozbaciclub fumarate results insignificant body weight loss. Crozbaciclub fumarate increases life span based on the median survival time of vehicle-treated animals in mice is significant at 162%, at a dose of 50 mg/kg <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Yin L, et al. A highly potent CDK4/6 inhibitor was rationally designed to overcome blood brain barrier in glioblastoma therapy. *Eur J Med Chem.* 2018 Jan 20;144:1-28.

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

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