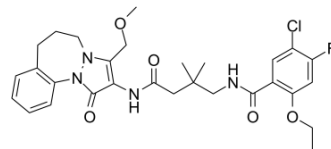


## CB-6644

Cat. No.:	HY-114429
Molecular Formula:	C <sub>29</sub> H <sub>34</sub> ClFN <sub>4</sub> O <sub>5</sub>
Molecular Weight:	573.06
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the COA.



### BIOLOGICAL ACTIVITY

<b>Description</b>	CB-6644 is a selective inhibitor of RUVBL1/2 complex with anti-cancer activity. CB-6644 blocks the ATPase activity of RUVBL1/2 with an IC <sub>50</sub> of 15 nM <sup>[1]</sup> .								
<b>In Vitro</b>	<p>CB-6644 (20 μM) interacts with the RUVBL1/2 complex in Ramos cells<sup>[1]</sup>.</p> <p>CB-6644 (0.001-10 μM; 72 hours) potently kills 123 cell lines (including HCT116, NCI-1975, and HT29 cells) with an EC<sub>50</sub> range of 41 to 785 nM<sup>[1]</sup>.</p> <p><b>Cell Viability Assay<sup>[1]</sup></b></p> <table border="1"> <tr> <td>Cell Line:</td> <td>123 cell lines such as HCT116, NCI-1975, and HT29 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.001, 0.01, 0.1, 1, and 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 hours</td> </tr> <tr> <td>Result:</td> <td>Potently killed cells with an EC<sub>50</sub> range of 41 to 785 nM.</td> </tr> </table>	Cell Line:	123 cell lines such as HCT116, NCI-1975, and HT29 cells	Concentration:	0.001, 0.01, 0.1, 1, and 10 μM	Incubation Time:	72 hours	Result:	Potently killed cells with an EC <sub>50</sub> range of 41 to 785 nM.
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<b>In Vivo</b>	<p>CB-6644 (150 mg/kg, oral administration, 10 days of treatment for SCID-beige mice bearing Ramos xenograft models, 30 days of treatment for SCID-beige mice bearing RPMI8226 xenograft models) has antitumor activity in xenograft tumor models with tumor growth inhibitions (TGIs) of 68 and 81%, respectively in Ramos xenograft models and RPMI8226 xenograft models<sup>[1]</sup>.</p> <table border="1"> <tr> <td><b>Animal Model:</b></td> <td>SCID-beige mice bearing human tumor xenografts derived from either Burkitt's lymphoma (Ramos) or multiple myeloma (RPMI8226) cell lines<sup>[1]</sup></td> </tr> <tr> <td><b>Dosage:</b></td> <td>150 mg/kg</td> </tr> <tr> <td><b>Administration:</b></td> <td>Oral gavage once (qd) or twice (BID) daily, 10 days of treatment for Ramos, 30 days of treatment for RPMI8226</td> </tr> <tr> <td><b>Result:</b></td> <td>There was no significant bodyweight loss in mice. TGI of 68 and 81% in Ramos and RPMI8226, respectively.</td> </tr> </table>	<b>Animal Model:</b>	SCID-beige mice bearing human tumor xenografts derived from either Burkitt's lymphoma (Ramos) or multiple myeloma (RPMI8226) cell lines <sup>[1]</sup>	<b>Dosage:</b>	150 mg/kg	<b>Administration:</b>	Oral gavage once (qd) or twice (BID) daily, 10 days of treatment for Ramos, 30 days of treatment for RPMI8226	<b>Result:</b>	There was no significant bodyweight loss in mice. TGI of 68 and 81% in Ramos and RPMI8226, respectively.
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## REFERENCES

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[1]. Assimon VA, et al. CB-6644 Is a Selective Inhibitor of the RUVBL1/2 Complex with Anticancer Activity. ACS Chem Biol. 2019 Feb 15;14(2):236-244.

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

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