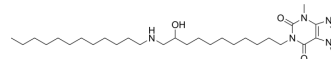


## CT-2584

<b>Cat. No.:</b>	HY-118982
<b>CAS No.:</b>	166981-13-1
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>55</sub> N <sub>5</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	533.79
<b>Target:</b>	Reactive Oxygen Species
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	CT-2584 is a chemotherapeutic compound that reduces the expression of NKEF-B in several tumor cell types and kills tumor cells by inducing the production of ROS in mitochondria, commonly used in cancer research <sup>[1]</sup> .								
<b>In Vitro</b>	<p>CT-2584 (0-7 μM, 3 days) has a certain toxic effect on ECV304, while B/1 cells have strong resistance to this <sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay<sup>[1]</sup></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Cell Line:</td> <td>ECV304 and its derived cell lines</td> </tr> <tr> <td>Concentration:</td> <td>0-7 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>3 days</td> </tr> <tr> <td>Result:</td> <td>Inhibited ECV304 and B/1 cells with the LC<sub>50</sub> value of 4.5 μM and 6.5 μM, respectively. After 7 μM treatment, the shape of ECV304 or ECV304/pCE2 cells became round and detached from the plate, while B/1 cells could clearly observe living cells that retained the spindle shape.</td> </tr> </table>	Cell Line:	ECV304 and its derived cell lines	Concentration:	0-7 μM	Incubation Time:	3 days	Result:	Inhibited ECV304 and B/1 cells with the LC <sub>50</sub> value of 4.5 μM and 6.5 μM, respectively. After 7 μM treatment, the shape of ECV304 or ECV304/pCE2 cells became round and detached from the plate, while B/1 cells could clearly observe living cells that retained the spindle shape.
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### REFERENCES

[1]. H Shau, et al. Endogenous natural killer enhancing factor-B increases cellular resistance to oxidative stresses. Free Radic Biol Med. 1997;22(3):497-507.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA