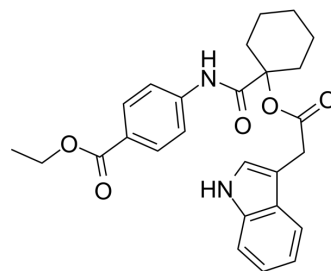


## Caspase-3/7 activator 1

Cat. No.:	HY-152748
Molecular Formula:	C <sub>26</sub> H <sub>28</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	448.51
Target:	Apoptosis; Caspase
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Caspase-3/7 activator 1 is an effective activator of Caspase-3/7. Caspase-3/7 activator 1 has tumor selectivity, anti-proliferative activity and high Apoptosis-inducing ability <sup>[1]</sup> .									
<b>IC<sub>50</sub> &amp; Target</b>	Caspase-3	Caspase-7								
<b>In Vitro</b>	<p>Caspase-3/7 activator 1 (Compound 7a) inhibits Wi-38, Caco-2 and HepG-2 cells with IC<sub>50</sub> values of 11.195 μM, 0.088 μM, 0.115 μM, respectively<sup>[1]</sup>.</p> <p>Caspase-3/7 activator 1 (0.06 μM; 72 h) significantly inhibits the expression of apoptosis inhibitor Bcl2 in Caco-2 cells (down-regulates Bcl2 by 0.471 folds). Caspase-3/7 activator 1 insignificantly effects the morphology of Caco-2 and HepG-2 cells<sup>[1]</sup>.</p> <p>Caspase-3/7 activator 1 (0.088 μM; 72 h) has the potential to induces apoptosis of Caco-2 cells (the total apoptotic cell populations is 50.905 %)<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Apoptosis Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>Caco-2 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.088 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 h</td> </tr> <tr> <td>Result:</td> <td>Showed to promote cell apoptosis.</td> </tr> </table>		Cell Line:	Caco-2 cells	Concentration:	0.088 μM	Incubation Time:	72 h	Result:	Showed to promote cell apoptosis.
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### REFERENCES

[1]. Ayoup MS, et al. Structure optimization of new tumor-selective Passerini α-acyloxy carboxamides as Caspase-3/7 activators. Sci Rep. 2022 Dec 27;12(1):22390.

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

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