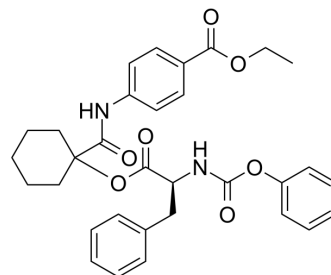


Caspase-3/7 activator 2

Cat. No.:	HY-152756
Molecular Formula:	C ₃₂ H ₃₄ N ₂ O ₇
Molecular Weight:	558.62
Target:	Apoptosis; Caspase
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Caspase-3/7 activator 2 is an effective activator of Caspase-3/7. Caspase-3/7 activator 2 has tumor selectivity, anti-proliferative activity and high Apoptosis-inducing ability ^[1] .									
IC₅₀ & Target	Caspase-3	Caspase-7								
In Vitro	<p>Caspase-3/7 activator 2 (Compound 7j) inhibits Wi-38, Caco-2 and HepG-2 cells with IC₅₀ values of 16.764 μM, 0.069 μM, 0.087 μM, respectively^[1].</p> <p>Caspase-3/7 activator 2 (0.06 μM; 72 h) significantly inhibits the expression of apoptosis inhibitor Bcl2 in Caco-2 cells (down-regulates Bcl2 by 0.127 folds). Caspase-3/7 activator 2 insignificant effects the morphology of Caco-2 and HepG-2 cells^[1].</p> <p>Caspase-3/7 activator 2 (0.069 μM; 72 h) has the potential to induces apoptosis of Caco-2 cells (the total apoptotic cell populations is 52.650 %)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Caco-2 cells.</td> </tr> <tr> <td>Concentration:</td> <td>0.069 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:	0.069 μM.	Incubation Time:	72 h.	Result:	Showed to promote cell apoptosis.
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Concentration:	0.069 μM.									
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Result:	Showed to promote cell apoptosis.									

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.

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

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