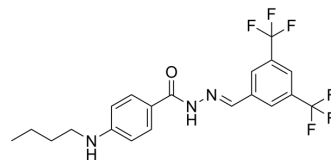


Anticancer agent 102

Cat. No.:	HY-149062
CAS No.:	2914922-86-2
Molecular Formula:	C ₂₀ H ₁₉ F ₆ N ₃ O
Molecular Weight:	431.37
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anticancer agent 102 is a derivative of tetracaine. Anticancer agent 102 has anti-cancer activity. Anticancer agent 102 induces apoptosis ^[1] .																
In Vitro	<p>Anticancer agent 102 (compound 2s; 24 and 48 h) has antitumor activity with IC₅₀ values of 299.4 μM and 20.8 μM against Colo-205 and HepG2 cells, respectively^[1].</p> <p>Anticancer agent 102 (25 μM and 50 μM; 24 h) down-regulates the expression level of apoptotic protein PI3K and FoXO3a, up-regulates the expression level of PTEN and FoXO1 in Colo-205 cells^[1].</p> <p>Anticancer agent 102 (24 h) up-regulates Bax expression and induces caspase-3-dependent apoptosis in the HepG2 cell line [1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Colo-205 and HepG2 cells</td> </tr> <tr> <td>Concentration:</td> <td>12.5, 25, 50, 100, 200, and 400 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 and 48 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell growth in a dose-dependent manner.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Colo-205 cells</td> </tr> <tr> <td>Concentration:</td> <td>25 μM and 50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>down-regulated the expression level of apoptotic protein PI3K and FoXO3a, up-regulated the expression level of PTEN and FoXO1 in Colo-205 cells.</td> </tr> </table>	Cell Line:	Colo-205 and HepG2 cells	Concentration:	12.5, 25, 50, 100, 200, and 400 μM	Incubation Time:	24 and 48 hours	Result:	Inhibited cell growth in a dose-dependent manner.	Cell Line:	Colo-205 cells	Concentration:	25 μM and 50 μM	Incubation Time:	24 hours	Result:	down-regulated the expression level of apoptotic protein PI3K and FoXO3a, up-regulated the expression level of PTEN and FoXO1 in Colo-205 cells.
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REFERENCES

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

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