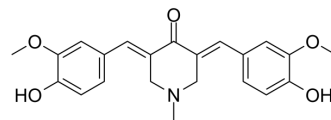


FLDP-8

Cat. No.:	HY-150794
CAS No.:	861968-02-7
Molecular Formula:	C ₂₂ H ₂₃ NO ₅
Molecular Weight:	381.42
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FLDP-8 is a curcuminoid analogues, has potent anti-cancer effects. FLDP-8 can induce cell death with an IC ₅₀ value of 4 μM in LN-18 cells ^[1] .																		
IC₅₀ & Target	IC ₅₀ : 4 μM (LN-18 cells) ^[1]																		
In Vitro	<p>FLDP-8 (0-40 μM, 24 h) induces cell death process with an IC₅₀ value of 4 μM in a concentration-dependent manner in LN-18 cells, which involves oxidative stress^[1].</p> <p>FLDP-8 (1.25 μM, 2.5 μM, 24 h) induces significant S-phase cell cycle arrest^[1].</p> <p>FLDP-8 (2.5 μM, 5 μM, 24 h) exhibits anti-cancer effects with anti-proliferative, anti-migratory and high potency of BBB permeable properties in Glioblastoma multiforme (GBM)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>LN-18 cells and HBECδ5i cells</td> </tr> <tr> <td>Concentration:</td> <td>0.625 μM -20 μM (LNδ18 cells)1.25 μM - 40 μM (HBECδ5i cells)</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Induced cytotoxicity on LNδ18 cells and HBECδ5i cells.</td> </tr> </table> <p>Cell Cycle Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>LN-18 cells</td> </tr> <tr> <td>Concentration:</td> <td>1.25 μM, 2.5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Induced arrest in S phase in a concentration-dependent manner.</td> </tr> </table> <p>Cell Invasion Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>LN-18 cells</td> </tr> </table>	Cell Line:	LN-18 cells and HBEC δ 5i cells	Concentration:	0.625 μM -20 μM (LN δ 18 cells)1.25 μM - 40 μM (HBEC δ 5i cells)	Incubation Time:	24 h	Result:	Induced cytotoxicity on LN δ 18 cells and HBEC δ 5i cells.	Cell Line:	LN-18 cells	Concentration:	1.25 μM, 2.5 μM	Incubation Time:	24 h	Result:	Induced arrest in S phase in a concentration-dependent manner.	Cell Line:	LN-18 cells
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Cell Line:	LN-18 cells																		

Concentration:	2.5 μ M, 5 μ M
Incubation Time:	24 h
Result:	Inhibited the invasion of LN-18 cells.

Cell Migration Assay ^[1]

Cell Line:	LN-18 cells
Concentration:	2.5 μ M, 5 μ M
Incubation Time:	24 h
Result:	Showed a high potential in inhibiting the migration of LN-18 cells.

REFERENCES

[1]. Nur Syahirah Che Razali, et al. Curcumin piperidone derivatives induce anti-proliferative and anti-migratory effects in LN-18 human glioblastoma cells. Sci Rep. 2022 Jul 30;12(1):13131.

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

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