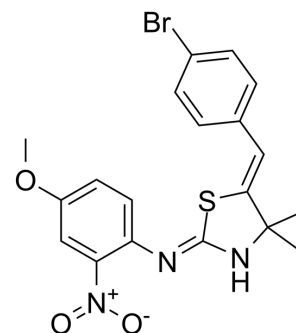


ERK-IN-6

Cat. No.:	HY-151934
Molecular Formula:	C ₁₉ H ₁₈ BrN ₃ O ₃ S
Molecular Weight:	448.33
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ERK-IN-6 (compound 6g) is a potent anti-proliferation agent against esophageal squamous cell carcinoma (ESCC). ERK-IN-6 induces cell apoptosis via ERK pathway. ERK-IN-6 can be used for the research of ESCC ^[1] .																						
IC₅₀ & Target	IC ₅₀ : 16.8 μM (KYSE-30), 10.07 μM (KYSE-150), 13 μM (HET-1A), 202.2 μM (NES-G4T) ^[1]																						
In Vitro	<p>ERK-IN-6 (0-10 μM; 72 h) inhibits cell proliferation of ESCC cells^[1].</p> <p>ERK-IN-6 (10 μM; 48-72 h) induces cell apoptosis through the ERK pathway^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>KYSE-30, KYSE-150, HET-1A and NES-G4T cell lines</td> </tr> <tr> <td>Concentration:</td> <td>0-10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 hours</td> </tr> <tr> <td>Result:</td> <td>Dose-dependently inhibited cell proliferation of KYSE-30, KYSE-150, HET-1A and NES-G4T cells with IC₅₀ values of 16.8, 10.07, 13 and 202.2 μM, respectively.</td> </tr> </table> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>KYSE-30 and KYSE-150 cell lines</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 and 72 hours</td> </tr> <tr> <td>Result:</td> <td>Induced KYSE-30 and KYSE-150 cell apoptosis with the loss of nuclei integrity at 72 h.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>KYSE-150 and NES-G4T cell lines</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>4, 8 and 12 hours</td> </tr> </table>	Cell Line:	KYSE-30, KYSE-150, HET-1A and NES-G4T cell lines	Concentration:	0-10 μM	Incubation Time:	72 hours	Result:	Dose-dependently inhibited cell proliferation of KYSE-30, KYSE-150, HET-1A and NES-G4T cells with IC ₅₀ values of 16.8, 10.07, 13 and 202.2 μM, respectively.	Cell Line:	KYSE-30 and KYSE-150 cell lines	Concentration:	10 μM	Incubation Time:	48 and 72 hours	Result:	Induced KYSE-30 and KYSE-150 cell apoptosis with the loss of nuclei integrity at 72 h.	Cell Line:	KYSE-150 and NES-G4T cell lines	Concentration:	10 μM	Incubation Time:	4, 8 and 12 hours
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Concentration:	10 μM																						
Incubation Time:	4, 8 and 12 hours																						

Result:

Time-dependently down regulated pERK.

REFERENCES

[1]. Marian NA, et al. Novel thiazolidines of potential anti-proliferation properties against esophageal squamous cell carcinoma via ERK pathway. European Journal of Medicinal Chemistry. 24 November 2022, 114909.

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

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