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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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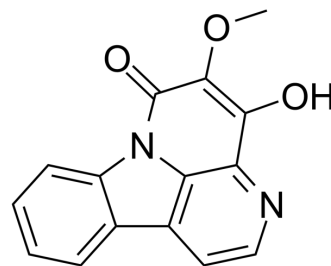
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Picrasidine Q

Cat. No.:	HY-N9507
CAS No.:	101219-61-8
Molecular Formula:	C ₁₅ H ₁₀ N ₂ O ₃
Molecular Weight:	266.25
Target:	Apoptosis; FGFR
Pathway:	Apoptosis; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Picrasidine Q, an alkaloid component extracted from <i>Angelica keiskei</i> species, has the capacity of anti-cell transformation and anti-cancer. Picrasidine Q induces cell apoptosis and G1 phase arrest in human esophageal cancer cell lines, and directly inhibits FGFR2 kinase activity ^[1] .																		
IC₅₀ & Target	FGFR2																		
In Vitro	<p>Picrasidine Q (0~60 μM; 3 hours; ESCC cells) suppresses downstream signaling of FGFR2 in ESCC cells^[1].</p> <p>Picrasidine Q (0~60 μM; 48 and 72 hours; ESCC cells) induces cell cycle arrest and apoptosis^[1].</p> <p>Picrasidine Q (0~60 μM; 24~72 hours; ESCC cells) suppresses the growth of ESCC cells^[1].</p> <p>Picrasidine Q (0~60 μM; 30 minutes; JB6Cl41 cells) inhibits proliferation by inhibition of G1/S cell cycle transition^[1].</p> <p>Picrasidine Q (12.5, 25 or 50 μM) can inhibit the FGFR2 kinase activity in a dose-dependent manner^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>ESCC cells</td> </tr> <tr> <td>Concentration:</td> <td>0~60 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>3 hours</td> </tr> <tr> <td>Result:</td> <td>Suppressed downstream signaling of FGFR2 in ESCC cells.</td> </tr> </table> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>ESCC cells</td> </tr> <tr> <td>Concentration:</td> <td>0~60 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 and 72 hours</td> </tr> <tr> <td>Result:</td> <td>Induced cell cycle arrest and apoptosis.</td> </tr> </table> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>ESCC cells</td> </tr> </table>	Cell Line:	ESCC cells	Concentration:	0~60 μM	Incubation Time:	3 hours	Result:	Suppressed downstream signaling of FGFR2 in ESCC cells.	Cell Line:	ESCC cells	Concentration:	0~60 μM	Incubation Time:	48 and 72 hours	Result:	Induced cell cycle arrest and apoptosis.	Cell Line:	ESCC cells
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Concentration:	0~60 μ M
Incubation Time:	24~72 hours
Result:	Suppressed the growth of ESCC cells.

Cell Cycle Analysis^[1]

Cell Line:	JB6Cl41 cells
Concentration:	0~60 μ M
Incubation Time:	30 minutes
Result:	Inhibited proliferation by inhibition of G1/S cell cycle transition.

REFERENCES

[1]. Shi Y, et al. FGFR2 regulation by picrasidine Q inhibits the cell growth and induces apoptosis in esophageal squamous cell carcinoma. J Cell Biochem. 2018;119(2):2231-2239.

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

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