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Zuschläge

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- Expressversand

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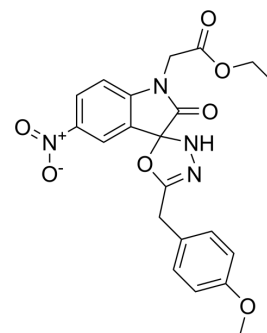
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Aldose reductase-IN-7

Cat. No.:	HY-161472
Molecular Formula:	C ₂₁ H ₂₀ N ₄ O ₇
Molecular Weight:	440.41
Target:	Aldose Reductase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Aldose reductase-IN-7 (Compound 6k) targets Aldose reductase. Aldose reductase-IN-7 exhibits potent enzyme inhibitory activity ($K_i = 0.186 \pm 0.020 \mu\text{M}$), showing superiority to Epalrestat (HY-66009), which is currently in clinical use. Aldose reductase-IN-7 is less cytotoxic and possesses potent anticancer activity ^[1] .								
In Vitro	<p>Aldose reductase-IN-7 (24 h) shows low cytotoxicity in L929 cells ($IC_{50} = 569.58 \pm 0.80 \mu\text{M}$). Significant anticancer activity can be observed in MCF-7 cells ($IC_{50} = 110.87 \pm 0.42 \mu\text{M}$)^[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>L929 cells and MCF-7 cells</td> </tr> <tr> <td>Concentration:</td> <td></td> </tr> <tr> <td>Incubation Time:</td> <td>24h</td> </tr> <tr> <td>Result:</td> <td>Ideally, killed cancer cells without harming healthy cells (S_1 value of 5.13). Specifically inhibited the proliferation of cancer cells compared to non-cancerous cells.</td> </tr> </table>	Cell Line:	L929 cells and MCF-7 cells	Concentration:		Incubation Time:	24h	Result:	Ideally, killed cancer cells without harming healthy cells (S_1 value of 5.13). Specifically inhibited the proliferation of cancer cells compared to non-cancerous cells.
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REFERENCES

[1]. Güleç Ö, et al. Novel spiroindoline derivatives targeting aldose reductase against diabetic complications: Bioactivity, cytotoxicity, and molecular modeling studies. Bioorg Chem. 2024 Apr;145:107221.

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

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