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Zuschläge

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- Expressversand

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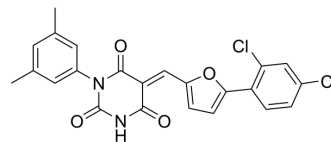
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Pneumolysin-IN-1

Cat. No.:	HY-163542
CAS No.:	330842-49-4
Molecular Formula:	C ₂₃ H ₁₆ Cl ₂ N ₂ O ₄
Molecular Weight:	455.29
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pneumolysin-IN-1 (compound PB-3) is a targeted small molecule inhibitor of Pneumolysin (PLY) (IC ₅₀ =3.1 μM). Pneumolysin-IN-1 is a pore blocking agent and an anti-virulence factor. Pneumolysin-IN-1 can be used to study the infection caused by <i>Streptococcus pneumoniae</i> ^[1] .								
IC₅₀ & Target	PLY-S61A ^[1] (3.1 ± 0.4 μM), PLY-N85L ^[1] (3.1 ± 0.6 μM), PLY-T55A ^[1] (1.5 ± 0.5 μM), PFO ^[1] (0.33 ± 0.01 μM)								
In Vitro	<p>Pneumolysin-IN-1 (1, 3 and 6 μM; 4 and 24 h) inhibits significantly PLY induced cell damage in a concentration-dependent manner^[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>A549 cells</td> </tr> <tr> <td>Concentration:</td> <td>1, 3 and 6 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>4 and 24 h</td> </tr> <tr> <td>Result:</td> <td>Prevented more than 95% of cellular damage at 6 μM.</td> </tr> </table>	Cell Line:	A549 cells	Concentration:	1, 3 and 6 μM	Incubation Time:	4 and 24 h	Result:	Prevented more than 95% of cellular damage at 6 μM.
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Concentration:	1, 3 and 6 μM								
Incubation Time:	4 and 24 h								
Result:	Prevented more than 95% of cellular damage at 6 μM.								

REFERENCES

[1]. Aziz U B A, et al. Targeted small molecule inhibitors blocking the cytolytic effects of pneumolysin and homologous toxins[J]. Nature Communications, 2024, 15(1): 3537.

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

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