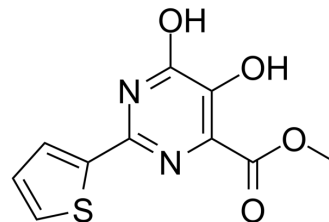


pUL89 Endonuclease-IN-1

Cat. No.:	HY-146270
CAS No.:	391680-92-5
Molecular Formula:	C ₁₀ H ₈ N ₂ O ₄ S
Molecular Weight:	252.25
Target:	CMV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	pUL89 Endonuclease-IN-1 (Compound 13d) is a potent inhibitor of human cytomegalovirus (HCMV) pUL89 endonuclease with the IC ₅₀ value of 0.88 μM and has antiviral activity ^[1] .								
IC₅₀ & Target	IC ₅₀ :0.88μM (pUL89-C)								
In Vitro	<p>pUL89 Endonuclease-IN-1 (compound 13d) is strongly inhibited pUL89-C with the values of IC₅₀0.88μM. pUL89 Endonuclease-IN-1 reveals excellent aqueous solubility, plasma stability, and metabolic stability in vitro ADME. pUL89 Endonuclease-IN-1 displays moderately permeability in the PAMPA^[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>HFF cells</td> </tr> <tr> <td>Concentration:</td> <td>5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>168 h</td> </tr> <tr> <td>Result:</td> <td>Showed significant inhibition for HCMV at 5 μM.</td> </tr> </table>	Cell Line:	HFF cells	Concentration:	5 μM	Incubation Time:	168 h	Result:	Showed significant inhibition for HCMV at 5 μM.
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REFERENCES

[1]. Tianyu He, et al. 4,5-Dihydroxypyrimidine Methyl Carboxylates, Carboxylic Acids, and Carboxamides as Inhibitors of Human Cytomegalovirus pUL89 Endonuclease. J Med Chem. 2022 Apr 14;65(7):5830-5849.

[2]. ianyu He, et al. 4,5-Dihydroxypyrimidine Methyl Carboxylates, Carboxylic Acids, and Carboxamides as Inhibitors of Human Cytomegalovirus pUL89 Endonuclease. J Med Chem. 2022 Apr 14;65(7):5830-5849.

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

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