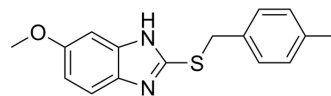


ABC-1

Cat. No.:	HY-124938
CAS No.:	309735-05-5
Molecular Formula:	C ₁₆ H ₁₆ N ₂ OS
Molecular Weight:	284.38
Target:	Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ABC-1 is a phosphorylated analogue and a potential antiviral agent against Newcastle disease virus (NDV). ABC-1 has potent antiviral activity ^{[1][2]} .									
In Vitro	<p>ABC-1 (175 and 350 μM; 96 hours) potently inhibits Cytopathic effect (CPE) ^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>DF-1 cells</td> </tr> <tr> <td>Concentration:</td> <td>175 and 350 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>96 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibits Cytopathic effect (CPE).</td> </tr> </table>		Cell Line:	DF-1 cells	Concentration:	175 and 350 μM	Incubation Time:	96 hours	Result:	Inhibits Cytopathic effect (CPE).
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Incubation Time:	96 hours									
Result:	Inhibits Cytopathic effect (CPE).									
In Vivo	<p>ABC-1 (2 mg/kg; Oral) reduces colocalized cells in liver and clara cells in lung tissue when compared to NDV control animals ^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Chickens (NDV treated) ^[2]</td> </tr> <tr> <td>Dosage:</td> <td>2 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Oral</td> </tr> <tr> <td>Result:</td> <td>Reduced colocalized cells in liver and clara cells in lung tissue when compared to NDV control animals.</td> </tr> </table>		Animal Model:	Chickens (NDV treated) ^[2]	Dosage:	2 mg/kg	Administration:	Oral	Result:	Reduced colocalized cells in liver and clara cells in lung tissue when compared to NDV control animals.
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REFERENCES

[1]. KA S, et al. Design, Synthesis and Biological Evaluation of Novel Phosphorylated Abacavir Derivatives as Antiviral Agents Against Newcastle Disease Virus Infection in Chicken. Appl Biochem Biotechnol. 2016;180(2):361-381.

[2]. Suresh KA, et al. Phosphorylated abacavir analogue (ABC-1) has ameliorative action against Newcastle disease virus induced pathogenesis in chicken. *Biotechnol Appl Biochem.* 2019;66(6):977-989.

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

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