# As-358 hydrochloride

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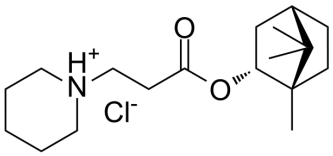
| **Cat. No.:** | HY-146883A |
| **CAS No.:** | 2374723-26-7 |
| **Molecular Formula:** | $C_{18}H_{32}ClNO_2$ |
| **Molecular Weight:** | 329.91 |
| **Target:** | Filovirus |
| **Pathway:** | Anti-infection |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |



## BIOLOGICAL ACTIVITY

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| **Description** | As-358 (hydrochloride) has inhibitory effects against Ebola virus and Marburg virus with $IC_{50}$s of 9.1 μM and 18.1 μM, as well as exhibits good in vivo safety[1]. |
| **$IC_{50}$ & Target** | $IC_{50}$: 9.1 μM (Ebola virus), 18.1 μM (Marburg virus)[1] |

**In Vitro**

As-358 (hydrochloride) (compound 3b·HCl) (0-500 μM) exhibits inhibitory activities against EBOV and MARV[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay

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| Cell Line: | Vero (infected with EBOV and MARV)[1] |
| Concentration: | 0-500 μM |
| Incubation Time: | 10 days |
| Result: | Exhibits inhibitory activities against EBOV and MARV, with $IC_{50}$s of 18.1 ± 9.3 μM and 9.1 ± 2.1 μM, SI values of 15 and 31, respectively. |

**In Vivo**

As-358 (hydrochloride) (0.14-1.08 g/kg; IG; single) exhibits no toxicity to adult mice with intragastric administration[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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| Animal Model: | ICR mice[1] |
| Dosage: | 1.08, 0.44, 0.27, and 0.14 g/kg |
| Administration: | IG; single (observed for 7 days) |
| Result: | Exhibited no toxicity to adult mice with intragastric administration, and the $LD_{50}$ > 1000 mg/kg. |

## REFERENCES

[1]. Sokolova AS, Yarovaya OI, Zybkina AV, et al. Monoterpenoid-based inhibitors of filoviruses targeting the glycoprotein-mediated entry process. Eur J Med Chem. 2020;207:112726.



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