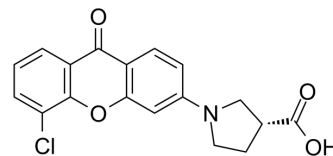


HBV-IN-25

| | |
|---------------------------|---|
| Cat. No.: | HY-151134 |
| CAS No.: | 2161364-69-6 |
| Molecular Formula: | C ₁₈ H ₁₄ ClNO ₄ |
| Molecular Weight: | 343.76 |
| Target: | HBV |
| Pathway: | Anti-infection |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | | | | |
|-------------------------------------|--|-------------------------------------|--|-------------------------------------|---|
| Description | HBV-IN-25 is a good potency, orally active novel HBV cccDNA reducer. HBV-IN-25 has anti-HBeAg potency and anti-HBV activity with IC ₅₀ values of 0.58 μM and 1.15 μM, respectively. HBV-IN-25 has good aqueous solubility (LYSA#452 μg/mL) and good PK property with no cellular toxicity ^[1] . | | | | |
| IC₅₀ & Target | IC ₅₀ : 0.58 μM (anti-HBeAg); 1.15 μM (anti-HBV) ^[1] . | | | | |
| In Vitro | HBV-IN-25 (8-50 μM, 5 days) has anti-HBeAg potency with an IC ₅₀ value of 0.58 μM. HBV-IN-25 (8-50 μM, 5 days) has the anti-HBV activity in PHH is maintained or slightly decreased with IC ₅₀ value of 1.15 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | | | |
| In Vivo | HBV-IN-25 (oral, 5, 20, 100, 300 mg/kg, single) has good PK property, and also shows excellent efficacy in significantly reducing HBV antigens, DNA, and intrahepatic cccDNA levels ^[1] . Pharmacokinetic Parameters of HBV-IN-25 in HBV circle mouse model (oral, 5, 20, 100, 300 mg/kg, single) ^[1] . | | | | |
| | Dose | Terminal body weight % versus day 1 | Spinal cord inflammation Foci per 20 cells | Spinal cord demyelination Score 0-5 | Spinal cord apoptotic cells Count per section |
| | PK parameter | 5 mg/kg PO | 20 mg/kg PO | 100 mg/kg PO | 300 mg/kg PO |
| | C _{max} (ng/kg) | 828 | 8157 | 32200 | 59900 |
| | T _{max} (ng/kg) | 0.25 | 0.5 | 0.5 | 2.67 |
| | AUC _{0-∞} (ng h/mL) | 857 | 11,818 | 119,960 | 453,367 |
| | t _{1/2} (h) | 3.46 | 3.45 | 1.82 | |
| | dose-normalized C _{max} [(ng/mL)/(mg/kg)] | 166 | 408 | 322 | 200 |

| | | | | |
|---|-----|-----|------|------|
| Dose-normalized AUC 0-24h [(ng h/mL)/(mg/kg)] | 171 | 591 | 1200 | 1511 |
|---|-----|-----|------|------|

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

| | |
|-----------------|--------------------------------------|
| Animal Model: | HBVcircle mouse model ^[1] |
| Dosage: | 5, 20, 100, 300 mg/kg |
| Administration: | oral, 5, 20, 100, 300 mg/kg, single |
| Result: | |

REFERENCES

[1]. Dongdong Chen, et al. Discovery of Novel cccDNA Reducers toward the Cure of Hepatitis B Virus Infection. J Med Chem. 2022 Aug 16.

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

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