ALK-IN-12

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| Cat. No.:HY-108230CAS No.:1197958-53-4Molecular Formula:C24H30CIN6O2PMolecular Weight:500.96Target:ALKPathway:Protein Tyrosine Kinase/RTKStorage:Please store the product under the recommended conditions in the Certificate of Analysis. | N N N N N N N N N N |
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| BIOLOGICAL ACTIV | ТТ | | |
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| Description | ALK-IN-12 is a potent and orally active ALK inhibitor with an IC ₅₀ of 0.18 nM. ALK-IN-12 also inhibits IGF1R and InsR (IC ₅₀ =20.3 and 90.6 nM). Antitumor activities ^[1] . | | |
| In Vitro | ALK-IN-12 (compound 11e) effectively inhibits viability of the Karpas-299 ALCL cell line with an IC ₅₀ of 28.3 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | |
| In Vivo | ALK-IN-12 (10-50 mg/kg; oral ALK-IN-12 (3 mg/kg; i.v.; 6-8 v 6.6 hours and 6.12 L/kg, resp ALK-IN-12 (10 mg/kg; p.o.; 6-v ng•h/mL, 6.0 hours, 12.5 hou MCE has not independently o | .K-IN-12 (10-50 mg/kg; orally; once daily for 13 consecutive days) shows dose-dependent antitumor activity^[1]. .K-IN-12 (3 mg/kg; i.v.; 6-8 week old female CD rats) treatment shows AUC_{0-∞}, CL, t_{1/2} and V_{ss} are 3039 ng•h/mL, 0.91 h•kg, 6 hours and 6.12 L/kg, respectively^[1]. .K-IN-12 (10 mg/kg; p.o.; 6-8 week old female CD rats) treatment shows C_{max}, AUC_{0-∞}, t_{max}, t_{1/2} and F are 3254 ng/mL, 4056 g•h/mL, 6.0 hours, 12.5 hours and 39%, respectively^[1]. CE has not independently confirmed the accuracy of these methods. They are for reference only. | |
| | Animal Model: | Eight- to 10-week old female SCID/beige mice (Karpas-299 xenograft mouse model expressing the NPM-ALK fusion) ^[1] | |
| | Dosage: | 10-50 mg/kg | |
| | Administration: | Orally; once daily for 13 consecutive days | |
| | Result: | Dose-dependent antitumor activity. Led to tumor stasis (50 mg/kg dose). | |

REFERENCES

[1]. Huang WS, et al. Discovery of Brigatinib (AP26113), a Phosphine Oxide-Containing, Potent, Orally Active Inhibitor of Anaplastic Lymphoma Kinase. J Med Chem. 2016;59(10):4948-4964.

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

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