

Product Datasheet

AMG337

Catalog No. **BP-02480** · CAS **1173699-31-4** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-10**

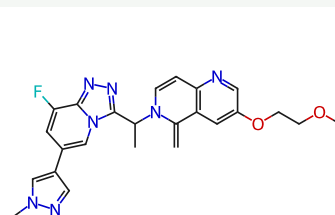
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Target c-Met/HGFR; Caspase; Apoptosis	Research area Cancer
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Molecular formula **C₂₄H₂₄N₇O₂**

Molecular weight **461.4915**

STRUCTURE



DESCRIPTION

AMG-337 is a potent, orally active, selective MET kinase inhibitor with IC₅₀ values of 1, 1, 4.7, 5, 21.5, 1077 and >4000 nM of WT MET, H1094R MET, M1250T MET, HGF-stimulated pMET (PC3 cells) MET, V1092I MET, Y1230H MET, and D1228H MET, respectively. AMG 337 inhibits the phosphorylation of MET and downstream effectors in MET-amplified cancer cell lines, resulting in an inhibition of MET-dependent cell proliferation and induction of apoptosis .

BIOLOGICAL ACTIVITY

In Vitro

AMG 337 (0-3 μM; 72 h) inhibits proliferation in MET-dependent cancer cell lines.

AMG 337 (0-300 nM; 0-24 h; MKN-45, SNU-620, and SNU-5 cells) inhibits signaling through the PI3K and MAPK pathways in MET-amplified gastric cancer cell lines, resulting in an inhibition of MET-dependent cell proliferation and induction of apoptosis.

In Vivo

AMG 337 (0-30 mg/kg; p.o.; daily, for 28 d) inhibits MET signaling in tumor xenografts and inhibits tumor growth in MET-dependent tumor xenograft models.

AMG 337 (0-3 mg/kg; p.o.; once, for 3 or 24 h) is associated with increased necrosis in the MET-dependent SNU-620 tumor xenograft model.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1].Hughes PE, et, al. In Vitro and In Vivo Activity of AMG 337, a Potent and Selective MET Kinase Inhibitor, in MET-Dependent Cancer Models. Mol Cancer Ther. 2016 Jul;15(7):1568-79.

[2].Du Z, et, al. Preclinical Evaluation of AMG 337, a Highly Selective Small Molecule MET Inhibitor, in Hepatocellular Carcinoma. Mol Cancer Ther. 2016 Jun;15(6):1227-37.

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