

Product Datasheet

MTX-531

Catalog No. **BP-00923** · CAS **2791417-66-6** · Form **free base** · Physical state **solid** · Color **off-white to light yellow** · Version **1.0** · Revision **2026-09-11**

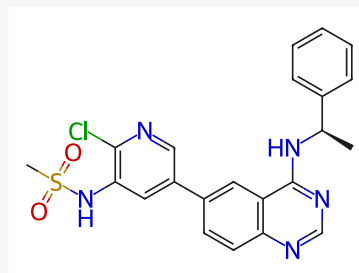
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Target EGFR; PI3K; PPAR	Research area Cancer
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Molecular formula **C₂₂H₂₀ClN₅O₂S**

Molecular weight **453.9450**

STRUCTURE



DESCRIPTION

MTX-531 is a potent and selective inhibitor of EGFR and PI3K, with IC₅₀s of 14.7 nM and 1.1-233 nM (differ in subtype). MTX-531 can also act as a weak agonist of PPAR_γ, with the EC₅₀ of 3.4 μM in 293H cells .

BIOLOGICAL ACTIVITY

MTX-531 is a first-in-class, potent and selective inhibitor of EGFR and PI3K, with IC₅₀s of 14.7 nM and 1.1-233 nM (differ in subtype). MTX-531 can also act as a weak agonist of PPAR_γ, with the EC₅₀ of 3.4 μM in 293H cells. MTX-531 inhibits EGFR and PI3K-mTOR signaling and tumor growth in the HNSCC PDX model.

SOLUBILITY

Soluble in DMSO

In vitro DMSO : 100 mg/mL

REFERENCES

[1]. Christopher E Whitehead, et al. A first-in-class selective inhibitor of EGFR and PI3K offers a single-molecule approach to targeting adaptive resistance. Nat Cancer. 2024 Jul 11.