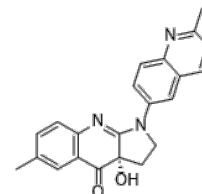


Product Name : MT-125
Cat. No. : PC-24862
CAS No. : 2404652-80-6
Molecular Formula : C₂₂H₁₉N₃O₂
Molecular Weight : 357.41
Target : Myosin
Solubility : 10 mM in DMSO



CAS: 2404652-80-6

Biological Activity

MT-125 is a specific, brain penetrant small-molecule inhibitor of **non-muscle myosin IIA** and **IIB** (**NMIIA** and **IIB**) with Ki of 2.7 μ M (NMIIA) and EC50 of 1.7 μ M (NMIIB).

MT-125 has very limited activity against cardiac myosin II (CMII; KI,CMII = 50 μ M).

MT-125 blocks GBM invasion and cytokinesis, and prolongs survival in murine GBM models.

MT-125 increases redox stress and consequent DNA damage, and synergizes with radiotherapy.

MT-125 also induces oncogene addiction to PDGFR signaling through a mechanism that is driven by redox stress, and it synergizes with FDA-approved PDGFR and mTOR inhibitors in vitro.

Combining MT-125 with sunitinib, a PDGFR inhibitor, or paxalisib, a combined phosphatidylinositol 3-kinase (PI3K)/mTOR inhibitor, significantly improves survival in orthotopic GBM models over either drug alone.

References

Kenchappa RS, et al. **Cell**. 2025 Jun 3:S0092-8674(25)00569-0.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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