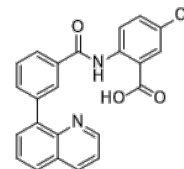


Product Name : TM5614
Cat. No. : PC-22551
CAS No. : 1247981-18-5
Molecular Formula : C₂₃H₁₅ClN₂O₃
Molecular Weight : 402.83
Target : Plasminogen Activator Inhibitor-1 (PAI-1)
Solubility : 10 mM in DMSO



CAS: 1247981-18-5

Biological Activity

TM5614 is a specific plasminogen activator inhibitor-1 (**PAI-1**) inhibitor with an IC₅₀ value of 3.63 μM in a tPA-dependent hydrolysis assay.

TM5614 treatment significantly suppressed cell proliferation and induced apoptosis in K562/PAI-1 cells, accompanied by increased activity of Furin protease, which is a known target of PAI-1.

TM5614 significantly ameliorates PM(2.5)-induced vascular thrombosis.

TM5614 ameliorates hypophosphatemia in Hyp mice.

References

Nagahisa Yamaoka, et al. *Bioorg Med Chem Lett*. 2018 Feb 15;28(4):809-813.

Qian C, et al. *FEBS Open Bio*. 2024 Feb;14(2):290-299.

Sasaki K, et al. *Tohoku J Exp Med*. 2022 Jun 25;257(3):211-224.

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

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