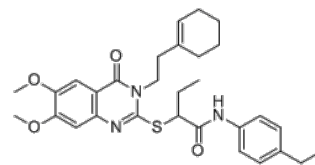


Product Name : K284
Cat. No. : PC-47042
CAS No. : 702668-62-0
Molecular Formula : C₃₀H₃₇N₃O₄S
Molecular Weight : 535.703
Target : Chitinase
Solubility : 10 mM in DMSO



Biological Activity

K284 is a selective small molecule inhibitor of **chitinase 3 like1 (CHI3L1)** with strong binding affinity ($K_d = -9.7$ kcal-mol⁻¹), inhibits lung metastasis by blocking IL-13R α 2-mediated JNK-AP-1 signals.

K284 inhibits the growth of A549 (IC₅₀=2.5 μ M) and H460 cells (IC₅₀=2.7 μ M), arrests cell cycle, and induces apoptotic cell death.

K284 (0.5 mg/kg) inhibits B16F10 melanoma metastasis to the lungs in C57BL/6 mice.

K284 inhibits CHI3L1/IL-13R α 2 signaling and JNK/AP-1 signaling in A549 and H460 cell lines.

References

Lee YS, et al. *Mol Oncol.* 2022 Jan;16(2):508-526.

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

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