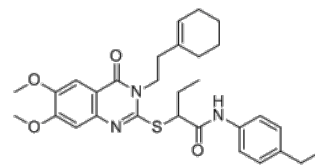


**Product Name** : K284  
**Cat. No.** : PC-47042  
**CAS No.** : 702668-62-0  
**Molecular Formula** : C<sub>30</sub>H<sub>37</sub>N<sub>3</sub>O<sub>4</sub>S  
**Molecular Weight** : 535.703  
**Target** : Chitinase  
**Solubility** : 10 mM in DMSO



### Biological Activity

K284 (K284-6111) is a selective small molecule inhibitor of **chitinase 3 like1 (CHI3L1)** with strong binding affinity ( $K_d = -9.7$  kcal·mol<sup>-1</sup>), inhibits lung metastasis by blocking IL-13R $\alpha$ 2-mediated JNK-AP-1 signals.

K284 inhibits the growth of A549 (IC<sub>50</sub>=2.5  $\mu$ M) and H460 cells (IC<sub>50</sub>=2.7  $\mu$ 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 $\alpha$ 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!**

E-mail: tech@probechem.com