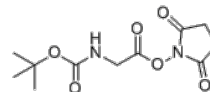


Product Name : SMC-21598
Cat. No. : PC-49404
CAS No. : 3392-07-2
Molecular Formula : C₁₁H₁₆N₂O₆
Molecular Weight : 272.257
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

SMC-21598 is a specific small molecule **CCL18** antagonist, binds with high-affinity on the CCL18 protein in 1:1 stoichiometry with ITC KD value of 600 nM, blocks the binding of CCL18 with its receptor **PITPNM3**.

SMC-21598 does not inhibit TGF- β , CXCL12, and EGF -induced cell migration.

SMC-21598 inhibited CCL18 induced cell migration in a concentration dependent manner with IC₅₀ value of 130 \pm 70 nM for MDA-MB-231 cells.

SMC-21598 (10 μ M) significantly inhibited CCL18-induced breast cancer cells adherence, invasiveness, and migration.

SMC-21598 did not significantly affect xenografts growth, but inhibited lung metastasis.

References

Liu Y, et al. *Clin Exp Metastasis*. 2019 Jun;36(3):243-255.

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

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