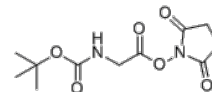


**Product Name** : SMC-21598  
**Cat. No.** : PC-49404  
**CAS No.** : 3392-07-2  
**Molecular Formula** : C<sub>11</sub>H<sub>16</sub>N<sub>2</sub>O<sub>6</sub>  
**Molecular Weight** : 272.257  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## 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 P1TPNM3.

SMC-21598 does not inhibit TGF- $\beta$ , CXCL12, and EGF -induced cell migration.

SMC-21598 inhibited CCL18 induced cell migration in a concentration dependent manner with IC<sub>50</sub> value of 130 $\pm$ 70 nM for MDA-MB-231 cells.

SMC-21598 (10  $\mu$ 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!**

E-mail: tech@probechem.com