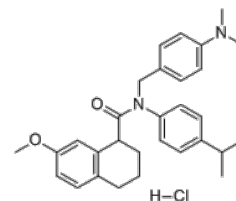


**Product Name** : W54011  
**Cat. No.** : PC-38846  
**CAS No.** : 405098-33-1  
**Molecular Formula** : C<sub>30</sub>H<sub>37</sub>ClN<sub>2</sub>O<sub>2</sub>  
**Molecular Weight** : 493.088  
**Target** : Complement System  
**Solubility** : 10 mM in DMSO



### Biological Activity

W-54011 (W54011) is a potent, selective, orally active and non-peptide **C5a receptor** antagonist, inhibits the binding of 125I-labeled C5a to human neutrophils with K<sub>i</sub> of 2.2 nM.

W-54011 also inhibited C5a-induced intracellular Ca<sup>2+</sup> mobilization, chemotaxis, and generation of reactive super oxide species in human neutrophils with IC<sub>50</sub> values of 3.1, 2.7, and 1.6 nM, respectively.

W-54011 did not show agonistic activity at up to 10 μM in C5a-induced intracellular Ca<sup>2+</sup> mobilization assay with human neutrophils.

W-54011 effectively inhibited C5a-induced intracellular Ca<sup>2+</sup> mobilization in neutrophils of cynomolgus monkeys and gerbils but not mice, rats, guinea pigs, rabbits, and dogs.

W-54011 (3-30 mg/kg, oral) inhibited C5a-induced neutropenia in a dose-dependent manner in gerbils.

### References

Xaria X Li, et al. *Biochem Pharmacol.* 2020 Oct;180:114156.

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

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