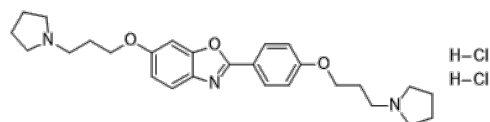


**Product Name** : E6446 dihydrochloride  
**Cat. No.** : PC-22146  
**CAS No.** : 1345675-25-3  
**Molecular Formula** : C<sub>27</sub>H<sub>37</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>3</sub>  
**Molecular Weight** : 522.51  
**Target** : Toll-like Receptor (TLR)  
**Solubility** : 10 mM in DMSO



## Biological Activity

E6446 dihydrochloride is a potent, orally available small molecule inhibitor of TLR7 and TLR9 with IC<sub>50</sub> of 1.78 μM and 0.01 μM, respectively.

E6446 shows weak activity against TLR4 (IC<sub>50</sub>=10.58 μM).

E6446 potently inhibits IL-6 production induced by CpG2216 and suppresses both IL-6 and α-interferon production induced by CpG oligo.

E6446 prevents DNA-TLR9 interaction in vitro and modulates signaling in vivo.

## References

Lamphier M, et al. Mol Pharmacol. 2014 Mar;85(3):429-40.

Franklin BS, et al. Proc Natl Acad Sci U S A. 2011 Mar 1;108(9):3689-94.

Dias AA, et al. J Immunol. 2016 Sep 1;197(5):1905-13.

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

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