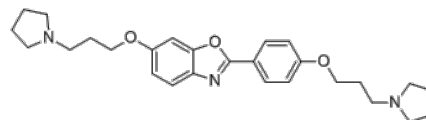


Product Name : E6446
Cat. No. : PC-62232
CAS No. : 1219925-73-1
Molecular Formula : C₂₇H₃₅N₃O₃
Molecular Weight : 449.595
Target : Toll-like Receptor (TLR)
Solubility : 10 mM in DMSO



Biological Activity

E6446 is a novel orally available small molecule inhibitor of **TLR7** and **TLR9** with IC₅₀ of 1.78 μM and 0.01 μM, respectively. E6446 shows weak activity against TLR4 (IC₅₀=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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