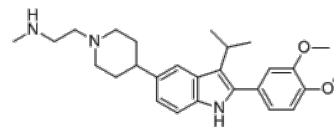


**Product Name** : BMS-615  
**Cat. No.** : PC-72051  
**CAS No.** : 2180127-82-4  
**Molecular Formula** : C<sub>27</sub>H<sub>37</sub>N<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 435.612  
**Target** : Toll-like Receptor (TLR)  
**Solubility** : 10 mM in DMSO



## Biological Activity

TLR789 inhibitor 7f (BMS-615) is a potent, orally bioavailable antagonist of Toll-like Receptor 7/8/9 (**TLR7/8/9**) with IC<sub>50</sub> of 10/17/700 nM in NF-κB reporter assays, does not inhibit TLR3/4.

TLR789 inhibitor 7f inhibits IL-6 production via TLR7/8/9 inhibitory response in human whole blood (mWB) assays with IC<sub>50</sub> of 5.7/5.1/320 nM, respectively.

TLR789 inhibitor 7f effectively blocks cytokine production elicited by treatment with agonists of TLR7 (gardiquimod) or TLR9 (ODN1585) in mouse pharmacodynamic (PD) models, dose-dependently decreases agonist-induced IL-6 production with plasma EC<sub>50</sub> of 2.4 nM (TLR7) or 25 nM (TLR9).

## References

Christopher P Mussari, et al. *ACS Med Chem Lett.* 2020 Jul 29;11(9):1751-1758.

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

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