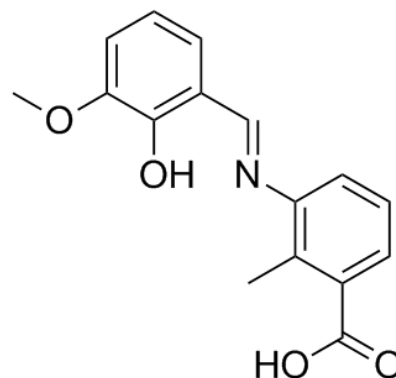


**Product Name** : TL2-C29  
**Cat. No.** : PC-42165  
**CAS No.** : 363600-92-4  
**Molecular Formula** : C<sub>16</sub>H<sub>15</sub>NO<sub>4</sub>  
**Molecular Weight** : 285.2946  
**Target** : Toll-like Receptor (TLR)  
**Solubility** : DMSO: ≥ 30 mg/mL



## Biological Activity

TL2-C29 (TLR2 inhibitor C29) is a small molecule **TLR2** inhibitor that blocks hTLR2/1 and hTLR2/6 signaling with IC<sub>50</sub> of 19.7 μM and 37.6 μM, respectively, in NF-κB reporter assay in HEK293T cells.

TLR2 inhibitor C29 targets the BB loop pocket of TLR2 TIR domain.

TLR2 inhibitor C29 inhibits TLR2/1 and TLR2/6 signaling induced by synthetic and bacterial TLR2 agonists in human HEK-TLR2 and THP-1 cells, but only TLR2/1 signaling in murine macrophages, does not inhibit signaling induced by other TLR agonists and TNF-α.

TLR2 inhibitor C29 blocks robust MAPK activation, reduces NF-κB activation, and prevents P3C-induced degradation of IκBα.

## References

Mistry P, et al. *Proc Natl Acad Sci U S A*. 2015 Apr 28;112(17):5455-60.

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

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