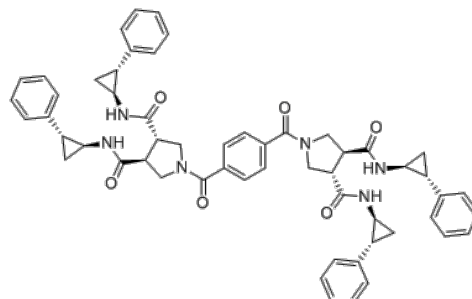


**Product Name** : Diprovocim  
**Cat. No.** : PC-35621  
**CAS No.** : 2170867-89-5  
**Molecular Formula** : C<sub>56</sub>H<sub>56</sub>N<sub>6</sub>O<sub>6</sub>  
**Molecular Weight** : 909.1  
**Target** : Toll-like Receptor (TLR)  
**Solubility** : 10 mM in DMSO



## Biological Activity

Diprovocim is a potent Toll-like receptor **TLR1/TLR2** agonist that induces dose-dependent TNF production with EC<sub>50</sub> of 110 pM in human THP-1 cells and 1.3 nM in primary mouse peritoneal macrophages.

Diprovocim induces TNF production in bone marrow-derived dendritic cells (BMDC) with EC<sub>50</sub> of 6.7 nM, also induces IL-6 production by mouse BMDC.

Diprovocim induces phosphorylation of IKK $\alpha$ , IKK $\beta$ , p38, JNK, and ERK, as well as degradation of I $\kappa$ B $\alpha$  in THP-1 cells and mouse peritoneal macrophages, activates conventional TLR1/TLR2 signaling, including MAPK and canonical NF- $\kappa$ B signaling.

Diprovocim synergizes with anti-PD-L1 to eliminate melanoma in mice.

## References

Wang Y, et al. *Proc Natl Acad Sci U S A*. 2018 Aug 27. pii: 201809232.

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

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