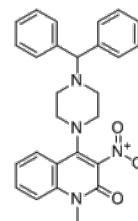


**Product Name** : BMS-684  
**Cat. No.** : PC-21287  
**CAS No.** : 313552-29-3  
**Molecular Formula** : C<sub>27</sub>H<sub>26</sub>N<sub>4</sub>O<sub>3</sub>  
**Molecular Weight** : 454.53  
**Target** : Diacylglycerol Kinase (DGK)  
**Solubility** : 10 mM in DMSO



CAS: 313552-29-3

## Biological Activity

BMS-684 (BMS684) is a potent, selective inhibitor of diacylglycerol kinase  $\alpha$  (**DGK $\alpha$** ) with IC<sub>50</sub> of 15 nM, weakly inhibit DGK $\beta$  and DGK $\gamma$ , does not inhibit other DGK lipid kinases.

BMS-684 exhibits a dose-dependent potentiation of IL-2 production with EC<sub>50</sub> of 5.43  $\mu$ M.

BMS-684 does not induce a T cell response in the absence of TCR stimulation.

BMS-684 exhibits the hallmark phenotype of a candidate intracellular T cell checkpoint inhibitor.

BMS-684 induces translocation of DGK $\alpha$  to the membrane in T cells with EC<sub>50</sub> of 0.54  $\mu$ M in the YFP-DGK $\alpha$  high-content translocation assays.

## References

Wichroski M, et al. *Sci Transl Med*. 2023 Oct 25;15(719):eadh1892.

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

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