Validation data for $GlcC_{14}C_{18}$

https://www.invivogen.com/glc-c14c18

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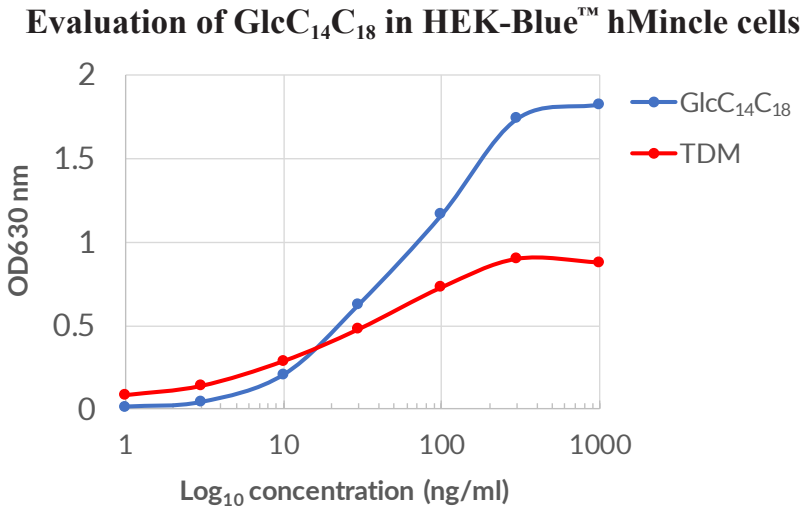
Glucosyl-6-tetradecyloctadecanoate ($GlcC_{14}C_{18}$) is a C_6-branched glycolipid that activates the macrophage-inducible C-type lectin (Mincle) receptor. This glucose monoester was developed using a rational design to obtain a structurally simple molecule that binds and activates Mincle. Upon $GlcC_{14}C_{18}$ recognition, Mincle interacts with the Fc receptor common γ-chain (FcRγ) triggering Syk-CARD9-dependent signaling and NF-κB activation. Stimulation of InvivoGen's HEK-Blue™ hMincle reporter cells with $GlcC_{14}C_{18}$ results in a dose-dependent induction of the NF-κB signaling pathway.



$GlcC_{14}C_{18}$ induces a dose-dependent response in HEK-Blue™ hMincle cells.
HEK-Blue™ hMincle cells were stimulated with increasing concentrations of $GlcC_{14}C_{18}$ and trehalose-6,6-dimycolate (TDM, also known as cord factor), an extensively studied Mincle agonist. After overnight incubation, the NF-κB response was determined using QUANTI-Blue™, a SEAP detection reagent, and by reading the optical density (OD) at 630 nm.

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