Validation data for diABZI

https://www.invivogen.com/diabzi

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diABZI also known as diABZI (compound 3) trihydrochloride, is a potent, non-cyclic dinucleotide STING agonist. The activation of STING leads to IFN regulatory factor (IRF3)-dependent type I IFN production and NF-κB-dependent inflammatory cytokine production. The activity diABZI has been validated using InvivoGen's THP1-Dual™ cells, a cell line derived from the human THP-1 monocyte cell line by stable integration of two inducible reporter constructs. As a result, these cells allow the simultaneous study of the IRF pathway by assessing the activity of a secreted Lucia luciferase, and the NF-κB pathway by monitoring the activity of SEAP. Stimulation of THP1-Dual™ cells with diABZI results in a dose-dependent activation of STING. Furthermore, diABZI is more potent when compared to the canonical STING ligand, 2'3'-cGAMP (**Figure 1**).

Evaluation of STING activation by diABZI

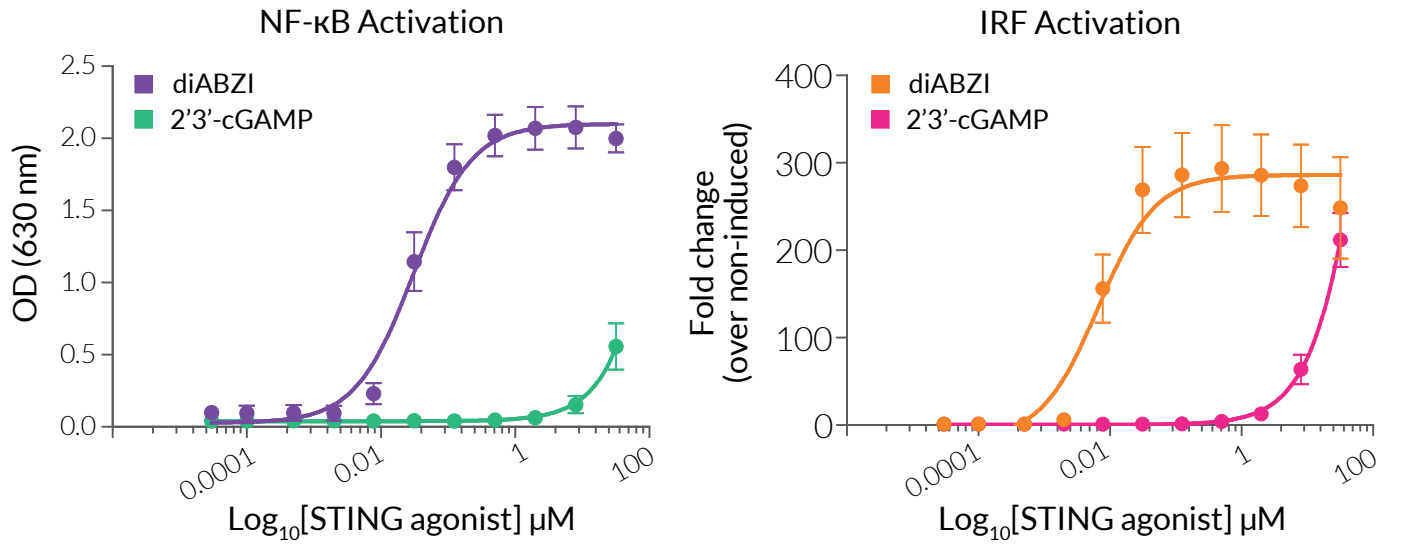

Figure 1: diABZI induces a dose-dependent response in THP1-Dual™ cells. The cells were incubated with increasing concentrations of diABZI or 2'3'-cGAMP. After overnight incubation (A) the NF-κB activity was assessed by measuring the SEAP activity in the supernatant using QUANTI-Blue™ Solution. Optical density (OD) at 630 nm is shown. (B) The IRF response was assessed by measuring the activity of Lucia luciferase in the supernatant using QUANTI-Luc™. Fold change over non-induced cells is shown.

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