CRX-527 is a synthetic lipid A mimic belonging to the family of aminoakyl glucoaminide 4-phosphates (AGPs). Lipid A is the immunostimulatory structure of the bacterial-derived Toll-like receptor 4 (TLR4) agonist, lipopolysaccharide (LPS). CRX-527 is a highly-specific TLR4 agonist and is described as the most powerful synthetic lipid A mimic of the AGP family. Stimulation of InvivoGen’s HEK-Blue™ human (h)TLR4 cells with CRX-527 results in a clear dose-dependent activation of TLR4, which is comparable to another LPS-like molecule, synthetic monophosphoryl lipid A (MPLA).


CRX-527 induces a dose-dependent response in HEK-Blue™ hTLR4 cells. The cells were incubated with increasing concentrations of CRX-527 and synthetic monophosphoryl lipid A (MPLA). After overnight incubation in HEK-Blue™ detection medium, a SEAP detection growth medium, the activation of TLR4 was assessed by determining the presence of SEAP in the supernatant. Data are expressed as OD (λ=630nm) ± SEM.