Validation data for LumiKine™ Xpress hIFN-α 2.0

https://www.invivogen.com/lumikine-xpress-hifna

For research use only

Version 19E14-ED

LumiKine™ Xpress hIFN-α 2.0 is a bioluminescent ELISA kit designed to rapidly quantify the levels of human interferon-α (hIFN-α) in cell culture supernatant, serum, and plasma samples. Expression of IFN-α is induced by a number of innate immune pathways including the cGAS-STING signaling pathway upon detection of cytosolic DNA. Unknown hIFN-α levels have been successfully quantified using LumiKine™ Xpress hIFN-α 2.0.

Determining unknown hIFN-α concentrations

A 7-point standard curve was generated using the standard hIFN-α2 provided in the LumiKine™ Xpress hIFN-α 2.0 kit (**Figure 1a**). From this, 'unknown' hIFN-α concentrations were determined upon stimulation of human peripheral blood mononuclear cells (PBMCs) with 2'3' cGAMP, a natural STING agonist. hIFN-α was succesfully detected (yellow) and quantified (blue) for stimulated cells upon activation of the STING signaling pathway (**Figure 1b**).

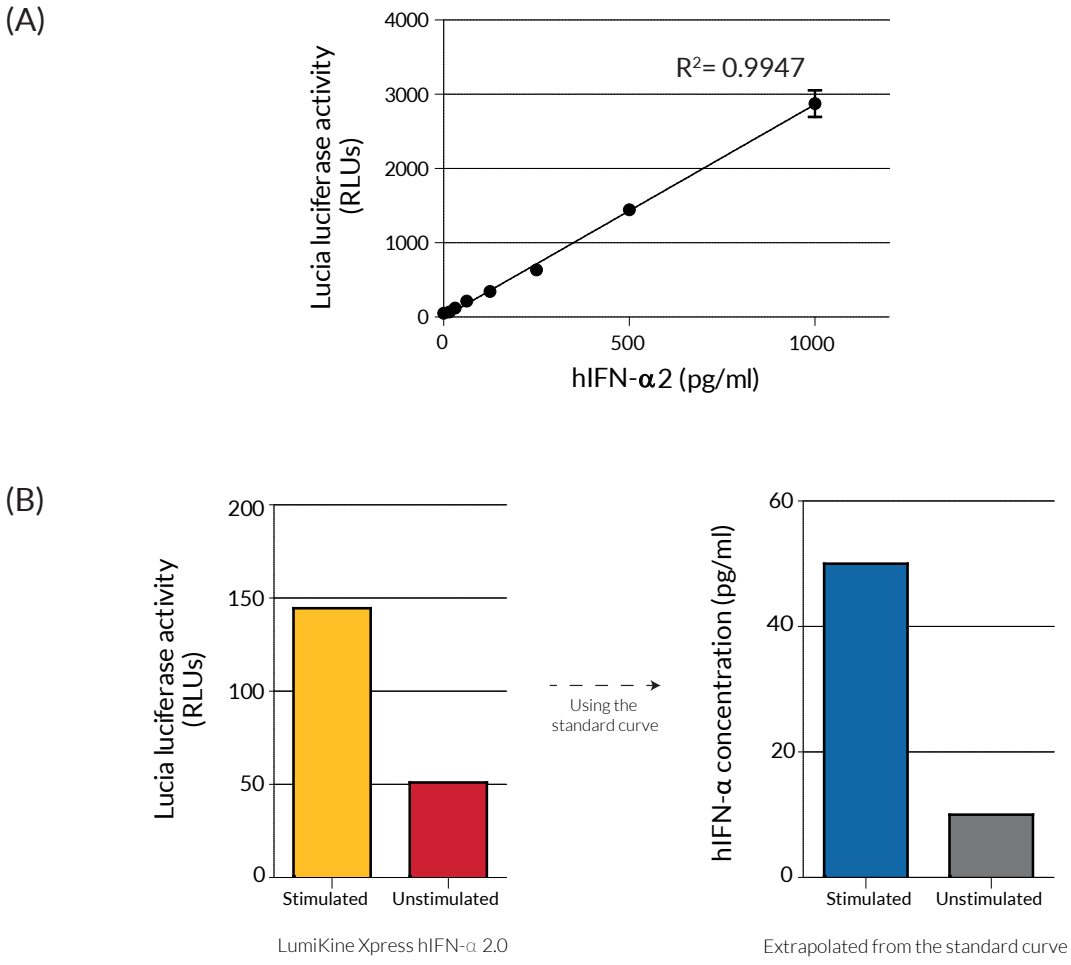

Figure 1: (A) A 7-point standard curve (beginning at 1000 pg/ml) was generated using a two-fold serial dilution of standard hIFN-α2. (B) Human peripheral blood mononuclear cells (PBMCs) were either stimulated with 2'3' cGAMP, a STING agonist, or left unstimulated. After 16 hours, the supernatant was isolated and the concentration of hIFN-α in both samples was quantified using LumiKine™ Xpress hIFN-α 2.0.

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