

The humanKine® Advantage

Proteintech's HumanKine® recombinant IL-2 is 40x more active than leading competitor IL-2

Interleukin-2 (IL-2) is a cytokine secreted by T cells that signals through heterodimerization of the IL-2R β and IL-2R γ subunits. It acts as a growth-factor for a wide range of leukocytes; inducing proliferation in CD4+ and CD8+ T cells, maintaining normal T regulatory cells function, and is essential in immune homeostasis and self-tolerance.

IL-2 can be used to stimulate cultured T cells, clonal expansion and proliferation of T cell populations, or to maintain normal function of cultured leukocytes such as NK cells and Tregs. It has also been used therapeutically in the treatment of numerous diseases, including cancer. The clinical benefit of IL-2 therapy comes from the expansion of T cell subsets that can target cancer cells in diseases such as renal cell carcinoma. IL-2 is also used in the production and differentiation of chimeric antigen receptor T cells for ground-breaking personalised CAR T cancer therapy.

Due to its importance both clinically and in research, many companies have produced and sold active recombinant human IL-2 protein. Figure 1 demonstrates that Proteintech's HumanKine human cell expressed recombinant IL-2 is up to 40x more active than leading competitor IL-2 when benchmarked side-by-side in the competitor's optimized assay protocol.

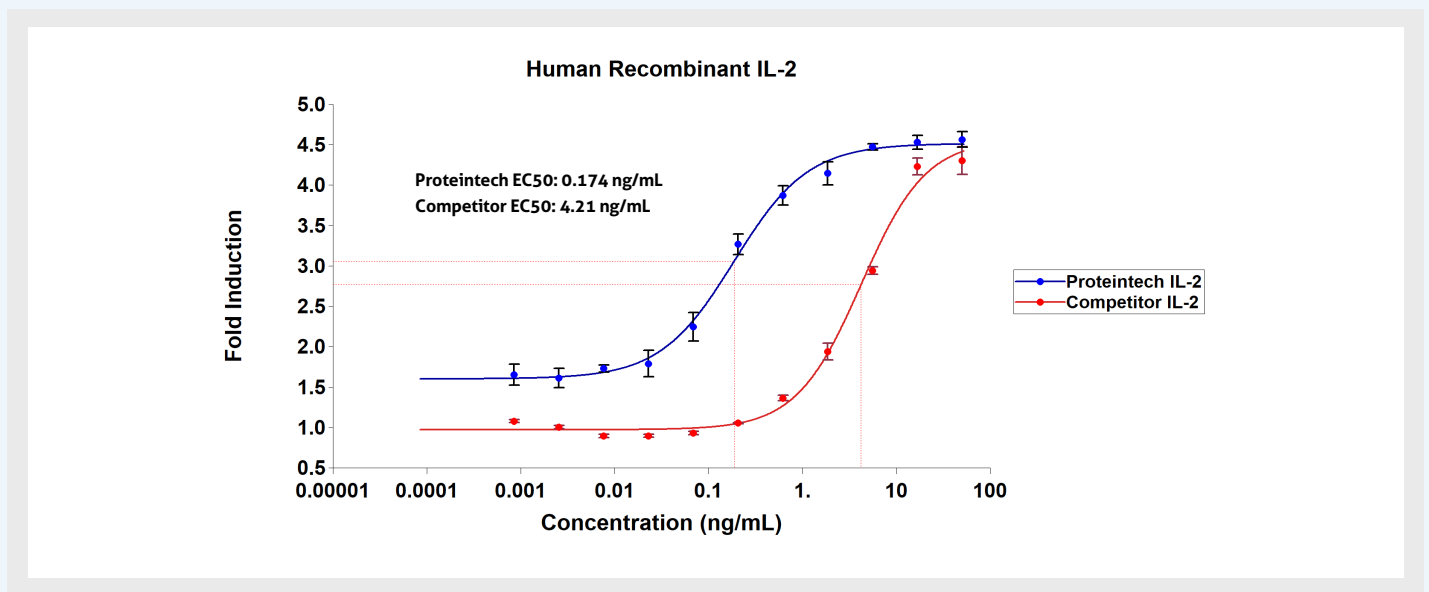


Figure 1. CTLL-2 cells (mouse cytotoxic T cell) were seeded in a 96 well plate at a density of 10,000 cells per well. Cells were starved for 5 hours prior to addition of IL-2. IL-2 was added at a starting concentration of 50 ng/mL and then diluted three-fold. Cells were incubated with IL-2 for 48 hours in a water-jacketed incubator set at 37°C. After incubation, PrestoBlue viability reagent was added to the cells and the signal was allowed to develop for at least two hours prior to determination of EC50.

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