

Product Information

Catalog Number	KD-001
Species	Human
Protein Construction	IL-2 (Ala21-Thr153), Accession # P60568
Tag	No tag
Expression System	HEK 293
Purity	> 95% as determined by SDS-PAGE
Predicted Molecular Mass	16 kDa
SDS-PAGE	15 kDa, under reducing conditions
Endotoxin	<0.1 EU/μg of the protein by the LAL method
Biological Activity	Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The ED50 for this effect is <2 ng/mL.
Formulation	Lyophilized from a 0.22μm filtered solution in PBS with 5% Trehalose
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder at 100 μg/mL in sterile deionized water
Storage & Stability	Use a manual defrost freezer and avoid repeated freeze-thaw cycles 12 months from date of receipt, at lower than -70 °C as supplied 1 week, 2 to 8 °C under sterile conditions after reconstitution 1 month, -20 to -70 °C under sterile conditions after reconstitution
Usage	Research use only

Product Data

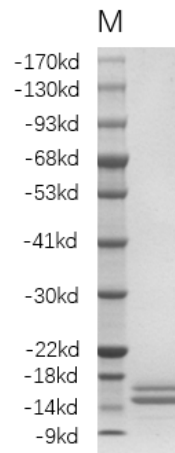


Figure 1. SDS-PAGE analysis with 2 μ g recombinant human IL-2 per lane, under reducing conditions, showing bands at 15 kDa.

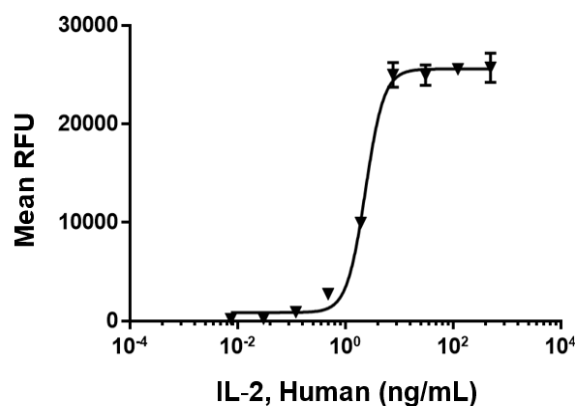


Figure 2. Biological activity measured in a cell proliferation assay using CTLL-2 cells, ED₅₀ for this effect is <2 ng/mL.

Background

Interleukin-2 (IL-2) is a glycosylated, four α -helix bundle cytokine that has potent stimulatory activity for antigen-activated T cells. It is expressed by CD4 and CD8 T cells, $\gamma\delta$ T cells, B cells, dendritic cells, and eosinophils. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. IL-2 stimulates growth and differentiation of B-cells, NK cells, lymphokine activated killer cells, monocytes, macrophages and oligodendrocytes.