

IL2

Human Interleukin-2 ELISA Kit

Catalog No.	CK404	Quantity:	1 x 96 tests
Alternate Names:	TCGF, lymphokine		
Description:	<p>Interleukin-2 (IL2) is a secreted cytokine that is important for the proliferation of T- and B-lymphocytes. It is produced mainly by T-cells expressing the surface antigen CD4 following cell activation by mitogens or allogens under physiological conditions. IL2 displays significant anti-tumor activity for a variety of tumor cell types since it supports the proliferation and clonal expansion of T-cells that specifically attack certain tumor types. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by Interleukin-4 (IL4) and Interleukin-7 (IL7). The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli.</p> <p>The Human IL2 ELISA is an <i>in vitro</i> enzyme-linked immunosorbent assay for the quantitative measurement of Human IL2 in serum, plasma, cell culture supernatants and urine. This assay employs an antibody specific for Human IL2 coated on a 96-well plate. Standards and samples are pipetted into the wells and IL2 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and Biotinylated Anti-Human IL2 antibody is added. After washing away unbound Biotinylated antibody, HRP-Streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of IL2 bound.</p>		
Sensitivity:	The minimum detectable dose of IL2 is typically less than 4 pg/mL		
Reproducibility:	Intra-Assay: CV<10%; Inter-Assay: CV<12%		
Samples:	Serum, plasma, cell culture supernatants and urine.		
Recovery:	Serum mean recovery of 95% (range 82-102%) Plasma mean recovery of 96% (range 83-103%) Cell culture media mean recovery of 96% (range 84-103%)		
Reagents Included:	1. Microplate 96-wells coated with Capture Antibody 2. Wash Buffer Concentrate (20x) 3. Standards 4. Assay Diluent A: Standard/Sample-Serum/Plasma 5. Assay Diluent B: Standard/Sample-Culture Medium/Urine 6. Biotinylated Detection Antibody 7. HRP-Streptavidin Concentrate 8. TMB One-Step Substrate Reagent 9. Stop Solution		
Storage & Stability:	May be stored for up to 6 months at 2-8°C from the date of shipment. Standard should be stored below -20°C (-80°C recommended) after reconstitution. Opened Microplate Wells and reagents may be store for up to 1 month at 2-8°C. Return unused wells to the pouch containing desiccant pack, reseal along entire edge of zipseal.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

