

IL6

Human Interleukin-6 ELISA Kit

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| Catalog No. | CK407 | Quantity: | 1 x 96 tests |
| Description: | <p>Interleukin-6 (IL6) is a 20.5 kDa cytokine, containing 184 amino acid residues, that functions in inflammation and the maturation of B-cells. It induces a number of biological responses and plays a role in cell growth regulation, immune host defense, angiogenesis and others. IL6 is primarily produced at sites of acute and chronic inflammation, where it is secreted into the serum and induces a transcriptional inflammatory response through Interleukin-6 Receptor alpha (IL6R). It is produced by many different cell types including monocytes, fibroblasts, endothelial cells, glial cells, and keratinocytes. IL6 is implicated in a wide variety of inflammation-associated disease states, including susceptibility to Diabetes Mellitus and systemic Juvenile Rheumatoid Arthritis.</p> <p>The Human IL6 ELISA is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human IL6 in serum, plasma, cell culture supernatants and urine. This assay employs an antibody specific for IL6 coated on a 96-well plate. Standards and samples are pipetted into the wells and IL6 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and Biotinylated Anti-Human IL6 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 IL6 bound.</p> | | |
| Sensitivity: | The minimum detectable dose of IL6 is typically less than 3.0 pg/mL | | |
| Reproducibility: | Intra-Assay: CV<10%; Inter-Assay: CV<12% | | |
| Samples: | Serum, plasma, cell culture supernatants and urine. | | |
| Recovery: | Serum mean recovery of 93% (range 83-103%) Plasma mean recovery of 94% (range 84-104%) Cell culture media mean recovery of 96% (range 83-105%) | | |
| Reagents Included: | <ol style="list-style-type: none">1. Microplate 96-wells coated with Capture Antibody2. Wash Buffer Concentrate (20x)3. Standards4. Assay Diluent A: For Standard/Sample-Serum/Plasma5. Assay Diluent B: For Standard/Sample-Cell Culture Medium/Urine6. Biotinylated Detection Antibody7. HRP-Streptavidin Concentrate8. TMB One-Step Substrate Reagent9. 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. | | |

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