

## IL8

### Human Interleukin-8 ELISA Kit

**Catalog No.** CK409 **Quantity:** 1 x 96 tests

**Description:** Interleukin-8 (IL8) is a member of a family of structurally-related low molecular weight pro-inflammatory factors known as chemokines. IL8 is produced by stimulated monocytes, but not by tissue macrophages and T-lymphocytes. IL8 is a non-glycosylated protein of 8 kDa (72 amino acids). It is produced by processing of a precursor protein of 99 amino acids. IL8 is a member of the C-X-C motif chemokine family. This chemokine is one of the major mediators of the inflammatory response. It functions as a chemoattractant, and is also a potent angiogenic factor. IL8 is believed to play a role in the pathogenesis of bronchiolitis, a common respiratory tract disease caused by viral infection.

The Human IL8 ELISA is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human IL8 in serum, plasma, cell culture supernatants and urine. This assay employs an antibody specific for IL8 coated on a 96-well plate. Standards and samples are pipetted into the wells and IL8 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and Biotinylated Anti-Human IL8 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 IL8 bound.

**Sensitivity:** The minimum detectable dose of IL8 is typically less than 1.0 pg/mL

**Reproducibility:** Intra-Assay: CV<10%; Inter-Assay: CV<12%

**Samples:** Serum, plasma, cell culture supernatants and urine.

**Recovery:** Serum mean recovery of 95% (range 84-107%)  
Plasma mean recovery of 94% (range 83-104%)  
Cell culture media mean recovery of 96% (range 85-106%)

**Reagents Included:**

1. Microplate 96-wells coated with Capture Antibody
2. Wash Buffer Concentrate (20x)
3. Standards
4. Assay Diluent A: For Standard/Sample (Serum/Plasma)
5. Assay Diluent B: For 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.**

