

## IL1A

### Human Interleukin-1 alpha ELISA Kit

<b>Catalog No.</b>	CKH116	<b>Quantity:</b>	1 x 96 tests
<b>Description:</b>	<p>Monocytes are the main source of secreted Interleukin-1 (IL1). They express predominantly IL1-beta (IL1B) while Human keratinocytes express large amounts of IL1-alpha (IL1A). IL1 is produced also by activated macrophages from different sources (alveolar macrophages, Kupffer cells, adherent spleen and peritoneal macrophages) and also by peripheral neutrophil granulocytes. IL1-alpha and IL1-beta are biologically more or less equivalent pleiotropic factors that act locally and also systemically. The main biological activity of IL1 is the stimulation of T-helper cells, which are induced to secrete IL2 and to express IL2 Receptors.</p> <p>The Human IL1-alpha ELISA Kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human IL1-alpha in serum, plasma, cell culture supernatants and urine. This assay employs an antibody specific for Human IL1-alpha coated on a 96-well plate. Standards and samples are pipetted into the wells and IL1-alpha present in a sample is bound to the wells by the immobilized antibody. The wells are washed and Biotinylated Anti-Human IL1-alpha 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 IL1-alpha bound.</p>		
<b>Sensitivity:</b>	The minimum detectable dose of IL1A is typically less than 2 pg/mL.		
<b>Reproducibility:</b>	Intra-Assay: CV<10%; Inter-Assay: CV<12%		
<b>Samples:</b>	Serum, plasma, cell culture supernatants and urine.		
<b>Recovery:</b>	Serum mean recovery of 92% (range 80-101%) Plasma mean recovery of 93% (range 82-102%) Cell culture media mean recovery of 102% (range 89-108%)		
<b>Reagents Included:</b>	<ol style="list-style-type: none"><li>1. Microplate 96-wells coated with Capture Antibody</li><li>2. Wash Buffer Concentrate (20x)</li><li>3. Standards</li><li>4. Assay Diluent A: For Standard/Sample (Serum/Plasma)</li><li>5. Assay Diluent B: For Standard/Sample (Culture Medium/Urine)</li><li>6. Biotinylated Detection Antibody</li><li>7. HRP-Streptavidin Concentrate</li><li>8. TMB One-Step Substrate Reagent</li><li>9. Stop Solution</li></ol>		
<b>Storage &amp; Stability:</b>	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.**

