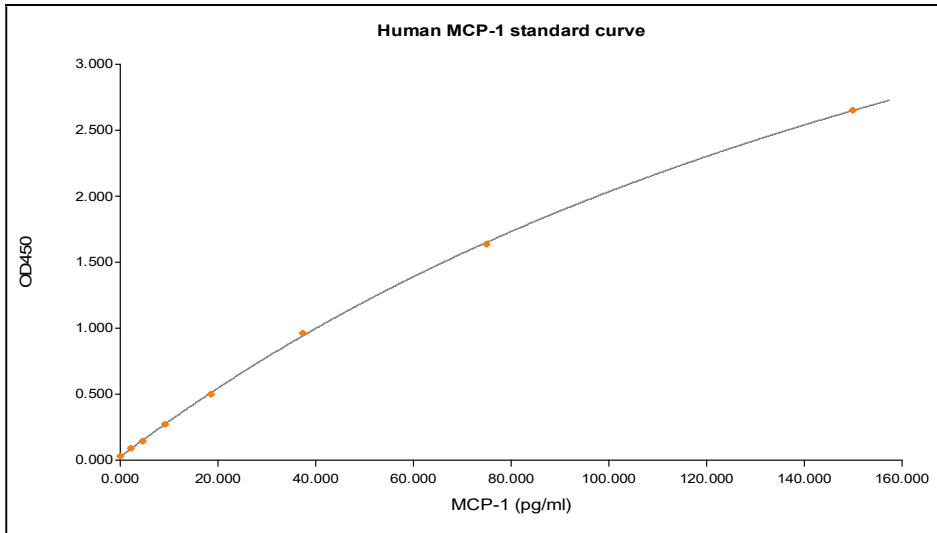


Human MCP-1/CCL2 ELISA Kit Cat# HIL-MCP-190

The Human MCP-1/CCL2 ELISA Kit is a highly sensitive sandwich ELISA for the measurement of Human MCP-1/CCL2 in serum, plasma, urine, culture supernatants, or other appropriately qualified matrices



MCP-1 (pg/ml)	0	2.34	4.687	9.375	18.75	37.5	75	150
OD450	0.034	0.091	0.149	0.279	0.507	0.967	1.641	2.655

Human MCP-1 ELISA Kit features

- Anti-Human MCP-1 antibody pre-coated, stabilized, ready-to-use 96-well breakable strip plate, suitable for multiple runs over 6-12 months.
- 3 lyophilized MCP-1 standards
- **Assay length:** 2 hours, 45 minutes. 4 incubation steps at room temperature.
- **Dynamic range:** 2.34-150 pg/ml
- **Sensitivity** ~0.7 pg/ml
- **Storage:** 2-8°C (whole kit)
- **Shelf life:** 6-12 months

Contains all necessary reagents. For in vitro research use only.

Assay Procedure: Allow all reagents to reach room temperature. Arrange and label required number of strips.

- Step 1.** Pipette 100 ul of appropriately diluted samples and calibrators into wells and incubate for 1 hour at room temperature.
- Step 2.** Wash the wells 3X with 300 ul of wash buffer for each well
- Step 3.** Add 100 ul of biotin conjugated detection antibody to each well and incubate for 1 hour at room temperature
- Step 4.** Wash the wells 3X with 300 ul of wash buffer for each well
- Step 5.** Pipette 100 ul of Streptavidin-HRP detection reagent to each well and incubate for 30 minutes at room temperature
- Step 6.** Wash the wells 3X with 300 ul of wash buffer for each well
- Step 7.** Add 100 ul of TMB Substrate solution to all wells, mix gently, and incubate at room temperature for 15 minutes.
- Step 8.** Pipette 100 ul of stop solution into each well and mix gently. Measure at 450 nm w/ 630 nm as a reference filter if available.

Performance Characteristics

Sensitivity: ~0.7 pg/ml
Average recovery: 98.82%
Average linearity: 101.05%
Precision: Intra-assay: <10% Inter-assay: <10%

Minimum recommended dilutions:

Serum & Plasma: 2-fold
 Culture medium: 2-fold
 Urine: 4-fold

Note: Minimum recommended dilution represents the dilution which is needed to eliminate matrix interference effects. All samples must be diluted to at least the minimum recommended ratio. Samples may be further diluted if the sample values fall within the standard curve, if sample volume is to be preserved, or if the sample value is above the highest OD on the standard curve

General Information

MCP-1 is a chemokine that binds and induces the chemoattraction of mononuclear cells. It induces activation of monocytes, NK cells, lymphocytes, and basophils.