

The NPgPro™ series is a type of ultra-low quantity protein specifically developed by ImmunoChem for immunoassay. We have optimized and developed freeze-dried formulations for different proteins. To ensure the consistency of activity and quantity of all products, we conducted rigorous validation experiments on each protein.

NPgPro™ Human MCP-1 Protein

Product Details

Quantity	0.5ng
Species	Human
Expression System	Yeast
Molecular Weight	10.1 kDa
Purity	>95% by SDS-PAGE
Form	Lyophilized
Contains	PBS buffered cryoprotectant
Sequence	Gln24-Thr99
Storage Condition	Store at <-20°C upon receiving

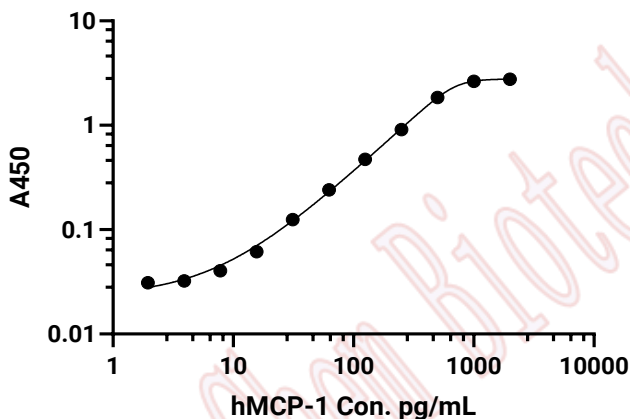
Description

Chemokine (CC-motif) ligand 2 (CCL2), also known as MCP-1 (Monocyte chemoattractant protein-1), belongs to the CC chemokine family. As a pivotal human CC chemokine, CCL2 attracts monocytes and is encoded by a gene situated on chromosome 17q11.2-q21.1, comprising 3 exons and 2 introns. The amino terminal domain of CCL2 is indispensable for its binding capabilities. Additionally, CCL2 binds to chemokine receptors CCR2 and CCR4.

CCL2 represents a superfamily of secreted proteins that play a crucial role in immunoregulatory and inflammatory processes. It aids in leukocyte recruitment, thereby contributing to protective immune responses during infections. CCL2 also modulates the activity of various signaling pathways, such as NF-κB, AKT, and ERK, which influence the development and progression of diseases, especially cancer. Given its potential involvement in various pathological conditions, numerous studies suggest that CCL2 could serve as a diagnostic tool for assessing inflammation levels in numerous diseases.

Reconstitution: Reconstitute the lyophilized protein in distilled water to 0.25~0.50ng/mL. Swirl or mix gently and allow the contents to sit for 15 minutes to ensure complete reconstitution, remember not to stir vigorously. Make any further usage of the reconstituted protein in buffered solution with FBS or tissue culture grade BSA.

Product Assay For NPgPro™ Human MCP-1 Protein



The reconstituted protein is only for one-time use.



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