

## Recombinant Swine CCL2 protein(His Tag)

Catalog Number: PKSS000018

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

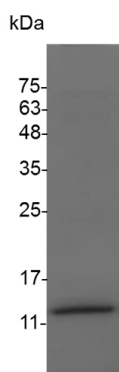
### Description

|                      |   |
|----------------------|---|
| <b>Species</b>       | Porcine   |
| <b>Source</b>        | E.coli-derived Porcine CCL2 protein Gln 24-Pro 99, with an N-terminal His |
| <b>Calculated MW</b> | 9.4 kDa   |
| <b>Observed MW</b>   | 11-17 kDa   |
| <b>Accession</b>     | P42831  |
| <b>Bio-activity</b>  | Not validated for activity  |

### Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 98 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 0.1 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.  |
| <b>Reconstitution</b> | Please refer to the specific buffer information in the printed manual.<br>Please refer to the printed manual for detailed information.  |

### Data



> 98 % as determined by reducing SDS-PAGE.

### Background

The chemokine (C-C motif) ligand 2 (CCL2), also known as monocyte chemoattractant protein (MCP)-1 and small inducible cytokine A2 (SCYA2), is a small cytokine that belongs to the CC chemokine family responsible for monocyte attraction. Its cognate receptor, CCR2, play a critical role in regulating nociceptive processes during neuropathic pain. Both CCL2 and CCR2 are implicated in induction of autoimmunity. CCL2 recruits monocytes, memory T cells, and dendritic cells to the sites of inflammation produced by either tissue injury or infection. Recently research also showed that CCL2 might be useful as a biomarker of fibrosis as well as a target for therapeutic intervention.

### For Research Use Only