

## Recombinant Rat IL-6 Protein(His Tag)

Catalog Number: PDER100245

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

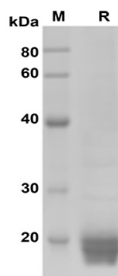
### Description

|               |  |
|---------------|--|
| Species       | Rat  |
| Source        | E.coli-derived Rat IL-6 protein Phe25-Thr211, with an N-terminal His |
| Calculated MW | 20.4 kDa   |
| Observed MW   | 18-20 kDa  |
| Accession     | P20607   |
| Bio-activity  | Not validated for activity   |

### Properties

|                |  |
|----------------|--|
| Purity         | > 90% as determined by reducing SDS-PAGE.  |
| Endotoxin      | < 10 EU/mg of the protein as determined by the LAL method  |
| Storage        | 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. |
| Shipping       | This product is provided as lyophilized powder which is shipped with ice packs.  |
| Formulation    | Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.  |
| Reconstitution | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.   |

### Data



SDS-PAGE analysis of Rat IL-6 proteins, 2µg/lane of  
Recombinant Rat IL-6 proteins was resolved with SDS-  
PAGE under reducing conditions, showing bands at 18-20  
kDa

### Background

Cytokine with a wide variety of biological functions in immunity, tissue regeneration, and metabolism. Binds to IL6R, then the complex associates to the signaling subunit IL6ST/gp130 to trigger the intracellular IL6-signaling pathway. The interaction with the membrane-bound IL6R and IL6ST stimulates 'classic signaling', whereas the binding of IL6 and soluble IL6R to IL6ST stimulates 'trans-signaling'. Alternatively, 'cluster signaling' occurs when membrane-bound IL6: IL6R complexes on transmitter cells activate IL6ST receptors on neighboring receiver cells.

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