

## Recombinant Mouse IL6 Protein(His Tag)

**Catalog Number: GPMM0194**

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

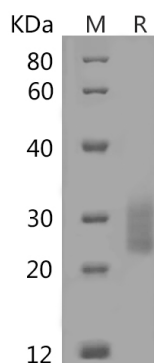
### Description

|                      |                                                                            |
|----------------------|----------------------------------------------------------------------------|
| <b>Species</b>       | Mouse                                                                      |
| <b>Source</b>        | HEK293 Cells-derived Mouse IL6 protein Met1-Thr211, with an C-terminal His |
| <b>Calculated MW</b> | 23 kDa                                                                     |
| <b>Observed MW</b>   | 25-30 kDa                                                                  |
| <b>Accession</b>     | P08505                                                                     |
| <b>Bio-activity</b>  | Not validated for activity                                                 |

### Properties

|                       |                                                                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95% as determined by reducing SDS-PAGE.                                                                                                                                                                                              |
| <b>Endotoxin</b>      | < 1.0 EU/mg 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 a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.                                                                                                                                                  |
| <b>Reconstitution</b> | 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



> 95 % as determined by reducing SDS-PAGE.

### Background

Cytokine with a wide variety of biological functions in immunity, tissue regeneration, and metabolism (Probable). 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.