## Recombinant Rat IL-6/Interleukin-6 Protein

Catalog Number:PKSR030420



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

<b>.</b>	4.0
Descri	ntion
DCSCII	

SynonymsIL6SpeciesRatExpression HostE.coli

SequencePhe25-Thr211AccessionNP\_036721.1Calculated Molecular Weight21.9 kDaObserved molecular weight22 kDaTagNone

**Bioactivity** Measured in a cell proliferation assay using T1165 mouse plasmacytoma cells. The

ED50 for this effect is typically 1-6 ng/ml.

## **Properties**

**Purity** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin** Please contact us for more information.

**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 sterile 40% acetonitrile, 0.1% TFA

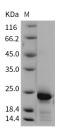
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 90 % as determined by reducing SDS-PAGE.

### **Background**

Interleukin-6 (IL-6) is a multifunctional  $\alpha$ -helical cytokine that regulates cell growth and differentiation of various tissues, which is known particularly for its role in the immune response and acute phase reactions. IL-6 protein is secreted by a variety of cell types including T cells and macrophages as phosphorylated and variably glycosylated molecule. It exerts actions through the its heterodimeric receptor composed of IL-6R that lacks the tyrosine/kinase domain and binds IL-6 with low affinity, and ubiquitously expressed glycoprotein 130 (gp130) that binds the IL-6. IL-6R complex with high affinity and thus transduces signals. IL-6 is also involved in hematopoiesis, bone metabolism, and cancer progression, and

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has been defined an essential role in directing transition from innate to acquired immunity.

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