



Recombinant Protein Technical Manual
Recombinant Rat IL-6/Interleukin-6 Protein (Active)
RPES3914

Product Data:

Product SKU: RPES3914

Size: 20µg

Species: Rat

Expression host: E. coli

Uniprot: NP_036721.1

Protein Information:

Molecular Mass: 21.9 kDa

AP Molecular Mass: 22 kDa

Tag:

Bio-activity: Measured in a cell proliferation assay using T1165 mouse plasmacytoma cells. The ED50 for this effect is typically 1-6 ng/ml.

Purity: > 90 % as determined by SDS-PAGE

Endotoxin: Please contact us for more information.

Storage: 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

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

Application: Cell Culture

Synonyms: IL6

Immunogen Information:

Sequence: Phe25-Thr211

Background:

Interleukin-6 (IL-6) is a multifunctional α -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 has been defined an essential role in directing transition from innate to acquired immunity.