A Reliable Research Partner in Life Science and Medicine

Recombinant Rat IL-6/Interleukin-6 Protein

Catalog Number: PKSR030420

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

Description

Species Rat

Source E.coli-derived Rat IL-6/Interleukin-6 protein Phe25-Thr211

 Calculated MW
 21.9 kDa

 Observed MW
 22 kDa

 Accession
 NP 036721.1

Bio-activity Measured in a cell proliferation assay using T1165 mouse plasmacytoma cells. The ED

50 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

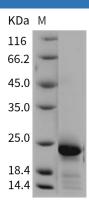
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

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 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.

For Research Use Only

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