

For Research Use Only

Recombinant Mouse IL-6 protein (Myc Tag, His Tag)



Catalog Number: Eg31367

Basic Information

ED50:
46-194 ng/mL

GeneID:
16193

Species:
Mouse

Accession:
P08505

Purity:
>95 %, SDS-PAGE

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse IL-6 protein Phe25-Thr211 (Accession# P08505) with a Myc tag and a His tag at the C-terminus.

Predicted Molecular Mass:
24.2 kDa

SDS-PAGE:
26-40 kDa, reducing (R) conditions

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Mouse IL-6R alpha (His tag) at 1 μ g/mL (100 μ L/well) can bind Mouse IL-6 (Myc tag, His tag) with a linear range of 46-194 ng/mL.

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Interleukin-6 (IL-6) is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. IL-6 protein is secreted by a variety of cell types including T cells and macrophages as phosphorylated and variably glycosylated molecule. IL-6 plays an essential role in the final differentiation of B-cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation. IL-6 is also considered a myokine, a cytokine produced from muscle, and is elevated in response to muscle contraction. IL-6 has been shown to interact with interleukin-6 receptor and glycoprotein 130. Additionally, IL-6 is involved in hematopoiesis, bone metabolism, and cancer progression, and has been defined an essential role in directing transition from innate to acquired immunity.

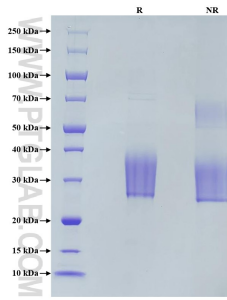
References

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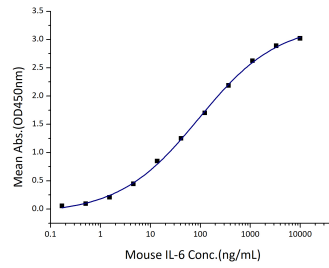
Synonyms

BSF2, CDF, HSF, IFNB2, IL6, IL-6, interleukin 6

Selected Validation Data



Purity of Recombinant Mouse IL-6 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Mouse IL-6R alpha (His tag) at $1 \mu\text{g/mL}$ ($100 \mu\text{L/well}$) can bind Mouse IL-6 (Myc tag, His tag) with a linear range of 46-194 ng/mL

For technical support and original validation data for this product please contact

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