

Recombinant Mouse LIF protein (His Tag)

Catalog Number: Eg0732

Basic Information

Species:
Mouse**Purity:**
>90 %, SDS-PAGE**Tag:**
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Mouse LIF protein Ser24-Phe203 (Accession# P09056) with a His tag at the C-terminus.

GeneID:

16878

Accession:

P09056

Predicted Molecular Mass:

20.9 kDa

SDS-PAGE:

30-45 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

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

Leukemia inhibitory factor (LIF) is a multi-functional cytokine of the interleukin-6 (IL-6) superfamily. It utilizes a receptor that consists of the LIF receptor B and gp130 and this receptor complex is also used by ciliary neurotrophic growth factor (CNTF), oncostatin M, cardiotrophin1 (CT1) and cardiotrophin-like cytokine (CLC). Functionally, LIF has been implicated in a many physiological processes including the induction of hematopoietic differentiation in normal and myeloid leukemia cells, induction of neuronal cell differentiation, regulator of mesenchymal to epithelial conversion during kidney development, and may also have a role in immune tolerance at the maternal-fetal interface.

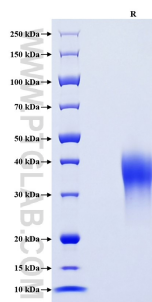
References

1. D J Hilton.et al. (1991) J Cell Biochem.46(1):21-6.
2. Nicos A.et al. (2005) Cytokine & Growth Factor Reviews.26(5):533-544.
3. C J Auernhammer.et al. (2000) Endocr Rev.21(3):313-45.

Synonyms

Lif, leukemia inhibitory factor

Selected Validation Data



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

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

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