

Recombinant Mouse IL-2 (C160S) Protein

Catalog No.: RP00807

Sequence Information

Species **Gene ID**
Mouse 16183

Swiss Prot **Tags**
P04351 No-Tag

Synonyms

IL2, IL-2, Interleukin-2, IL-2, T-cell growth factor, TCGF

Product Information

Source **Purification**
E. coli ≥90 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
17.28 kDa 15-20 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from 0.22μm filtered solution in PBS (pH 7.4).

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Interleukin 2 (IL 2), also termed T-cell growth factor, is a member of the cytokine family which includes IL-4, IL-7, IL-9, IL-15 and IL-21. Each member of this family has a four alpha helix bundle. IL-2 signals through the IL-2 receptor, a complex consisting of three subunits, termed alpha, beta and gamma. The IL-2 R gamma is shared by cytokine receptors of all members of cytokine family. Mature mouse IL -2 shares 56% and 73% aa sequence identity with human and rat IL-2, respectively. IL-2 is produced by CD4+ T cell, CD8+ T cells, gamma δ T cells, B cells, dendritic cells and eosinophils, and plays a vital role in key function of the immune system, tolerance and immunity, primarily via its potent stimulatory activity for T cells. Thus, IL-2 may be a key cytokine in the natural suppression of autoimmunity.

Basic Information

Description

Recombinant Mouse IL-2 (C160S) Protein is produced by *E. coli* cells expression system. The target protein is expressed with sequence (Ala21-Gln169) of Mouse IL-2 (Accession # NP_032392.1) fused with No tag.

Activity

Measured in a cell proliferation assay using murine CTLL-2 cells. The ED₅₀ for this effect is 0.49-1.98 ng/mL, corresponding to a specific activity of 5.05×10⁵ ~2.02×10⁶ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

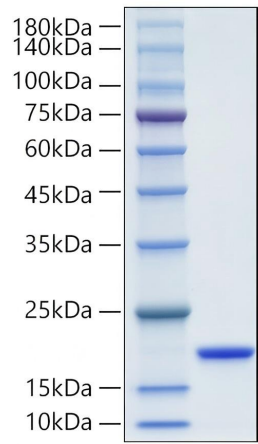
Contact

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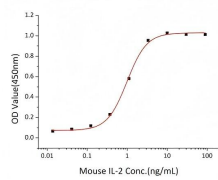
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Validation Data



Recombinant Mouse IL-2 (C160S) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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