

General Information

Source	<i>Escherichia coli</i>
Synonyms	Interleukin 2; IL2; TCGF
Accession	P04351
Molecular Mass	17.2 kDa
Description	Recombinant Mouse IL-2 is an 17.2 kDa protein consisting of 148 amino acid residues.
Shipping	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Aliquot the reconstituted solution to minimize freeze-thaw cycles. Lyophilized protein should be stored at -20°C to -80°C, stable for one year after receipt. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Reconstitution	Centrifuge tubes before opening. Dissolve the lyophilized protein in distilled water. Do not mix by vortex. It is recommended to dissolve the product at a concentration of twice the specified specification.
Background	Interleukin 2 (IL-2) is an immuno-modulatory cytokine that is important for the proliferation of activated T cells, differentiation of B cells, natural killer cells, monocytes and macrophages. IL-2 signals through the IL-2 receptor (IL-2R), a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL-4) and interleukin 7 (IL-7). The expression of the IL-2 gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a gene similar to IL-2 in mice leads to an ulcerative colitis-like disease that suggests an essential role of this gene in the immune response to antigenic stimuli.

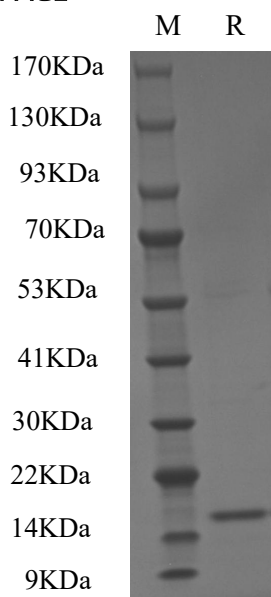
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Specifications

Formulation	Lyophilized from sterile PBS, pH 7.4, 5% trehalose.
Purity	≥95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ug
Bioactivity	Immobilized Anti-Mouse IL-2 Antibody at 0.2 ug/mL (50 uL/well) can bind Mouse IL-2 with a linear range of 39.06 - 10,000.0 pg/mL.

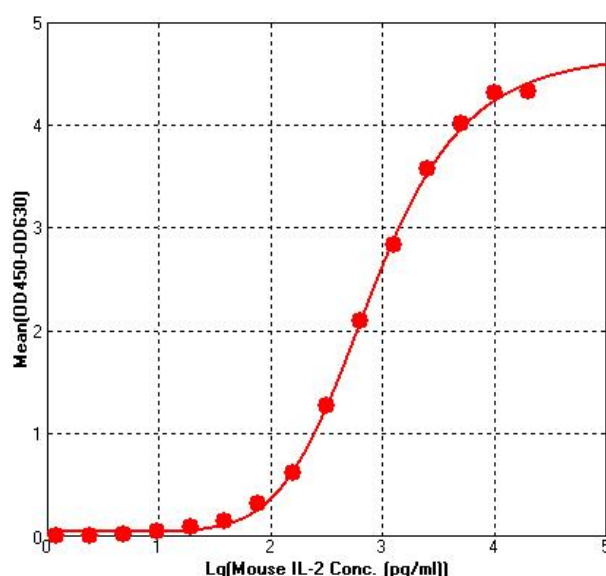
Data

SDS-PAGE



Greater than 95% as determined by reducing SDS-PAGE.

Bioactivity-ELISA



Immobilized Anti-Mouse IL-2 Antibody at 0.2 ug/mL (50 uL/well) can bind Mouse IL-2 with a linear range of 39.06 - 10,000.0 pg/mL. (EC50 = 0.70 ng/mL)

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