

Datasheet for ABIN6700067

**IL-2 Protein****2** Images[Go to Product page](#)

## Overview

Quantity:	5 µg
Target:	IL-2 (IL2)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

## Product Details

Purpose:	Mouse Interleukin-2 Recombinant Protein
Purification:	Interleukin-2 purity was determined to be greater than 98% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by its ability to induce the prolife

## Target Details

Target:	IL-2 (IL2)
Alternative Name:	IL2 ( <a href="#">IL2 Products</a> )
Background:	Synonyms: T cell growth factor, TCGF, Aldesleukin Background: Interleukin-2 (IL-2) is an immuno-modulatory cytokine produced by stimulated T cells. IL-2 signals through the IL-2R receptor to induce proliferation of activated T cells. IL-2 also

## Target Details

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stimulates proliferation and differentiation of B cells, natural killer cells, monocytes and macrophages. Recombinant mouse IL-2 is a non-glycosylated protein, containing 149 amino acids, with a molecular weight of 17.2 kDa.

UniProt: [P04351](#)

Pathways: [JAK-STAT Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Activated T Cell Proliferation](#)

## Application Details

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Application Notes: Other: User Optimized  
Application\_Note: Mouse Interleukin-2 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Mouse Interleukin-2 in immunological assays.

Comment: Suggested\_Applications: Cellular Assay  
Other\_Performance\_Data:

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Reconstitution\_Buffer: Restore with deionized water (or equivalent)  
Reconstitution\_Volume: 5 µL (5-50 µL)

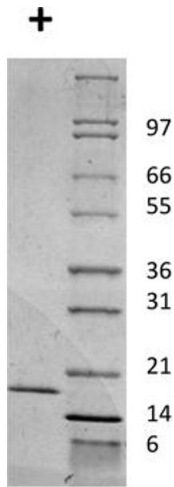
Concentration: 0.1 mg/mL

Buffer: Lyophilized in 0.01M sodium citrate, pH 4.0.

Preservative: Without preservative

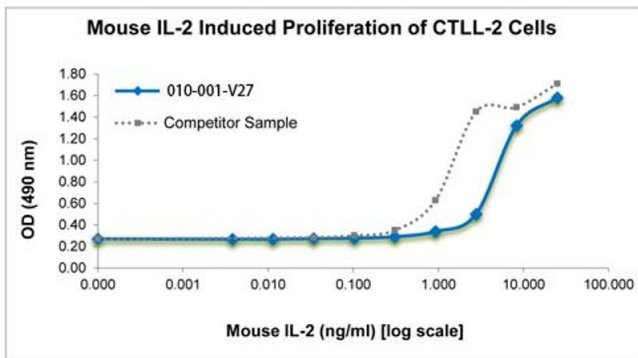
Storage: -20 °C

Storage Comment: Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.



**SDS-PAGE**

**Image 1.** SDS-PAGE of Mouse Interleukin-2 Recombinant Protein SDS-PAGE of Mouse Interleukin-2 Recombinant Protein. Lane 1: 1 µg Mouse IL-2 in reducing conditions (+). Lane 2: Molecular weight marker. Mouse IL-2 has a predicted MW of 17.2 kDa.



**SDS-PAGE**

**Image 2.** SDS-PAGE of Mouse Interleukin-2 Recombinant Protein Bioactivity of Mouse Interleukin-2 Recombinant Protein. CTLL-2 cells were cultured with 0 to 25 ng/mL Mouse IL-2. Cell proliferation was measured after 66 hours and the linear portion of the curve was used to calculate the ED50. The ED50 of Mouse IL-2 is 3.9-5.9 ng/mL.