

Datasheet for ABIN6700068

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

Overview

Quantity:	20 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 proliferation of CTLL-2 cells and is typically 0.1-0.4 ng/mL.

Target Details

Target:	IL-2 (IL2)
Alternative Name:	IL2 (IL2 Products)
Background:	Synonyms: T cell growth factor, TCGF, Aldesleukin Background: Interleukin-2 (IL-2) is an immuno-modulatory cytokine produced by stimulated T

Target Details

cells. IL-2 signals through the IL-2R receptor to induce proliferation of activated T cells. IL-2 also 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

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

Format: Lyophilized

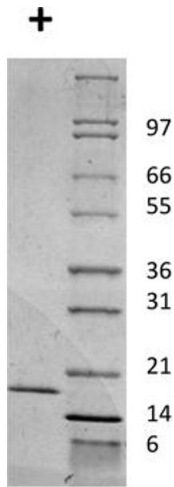
Reconstitution: Reconstitution_Buffer: Restore with deionized water (or equivalent)
Reconstitution_Volume: 20 µL (20-200 µL)

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

Preservative: Without preservative

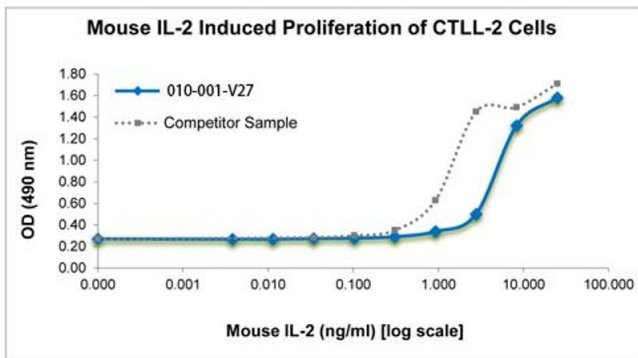
Storage: -20 °C

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.