Datasheet for ABIN6700021

IL12 Protein

2 Images

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Overview

Quantity:	100 µg
Target:	IL12
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Mouse Interleukin-12 Recombinant Protein
Purification:	Interleukin-12 purity was determined to be greater than 95% as determined by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the induced expression of CD25 on CD8+ mouse T cells and is typically detectable starting at 0.1 ng/mL.

Target Details

Target:	IL12
Alternative Name:	Il12a/Il12b (IL12 Products)
Background:	Synonyms: NKSF, CLMF Background: Interleukin-12 (IL-12) is an important mediator of cellular-immunity produced by

Target Details

	dendritic cells, macrophages and B cells when stimulated with antigen. IL-12 is involved in differentiating precursor helper T cells to Th1 and/or Th2 subtypes and promotes the production of IFN gamma and TNF alpha. Mouse IL-12 is active on human and mouse cells. Recombinant mouse IL-12 is a glycosylated, disulfide-linked heterodimer. It is containing one p35 su
UniProt:	P43432
Pathways:	JAK-STAT Signaling, TLR Signaling, Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Activated T Cell Proliferation, Cancer Immune Checkpoints, Inflammasome

Application Details

Application Notes:	Other: User Optimized Application_Note: Interleukin-12 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Interleukin-12 in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

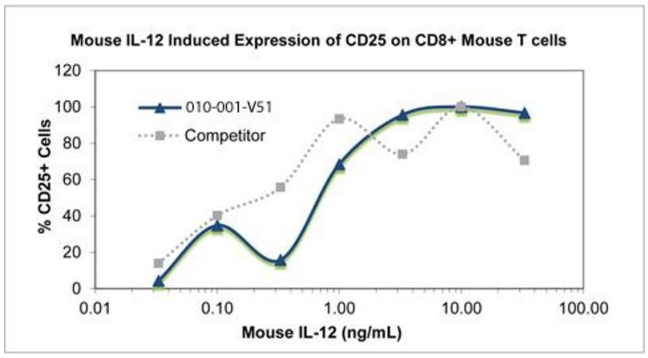
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 100 µL
Buffer:	Lyophilized in 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° 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.

Handling

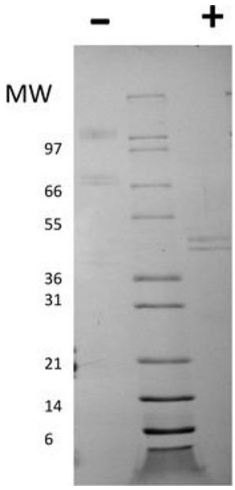
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Mouse Interleukin-12 Recombinant Protein Bioactivity of Mouse Interleukin-12 Recombinant Protein. Serial dilutions of Mouse IL-12 (starting at 33 ng/mL) were added to mouse splenic T cells. After 72 hours, cells were stained to analyze surface CD8 and CD25. The linear portion of the curve was us used to calculate the ED50. The ED50 of Mouse IL-12 is between 1-1.8 ng/mL. This value is comparable to the typically expected to be less than 2 ng/mL.



SDS-PAGE

Image 2. SDS-PAGE of Mouse Interleukin-12 Recombinant Protein SDS-PAGE of Mouse Interleukin-12 Recombinant Protein. Lane 1: 1 µg Mouse IL-12 in non-reducing conditions . Lane 2: Molecular weight marker. Lane 3: 1 µg Mouse IL-12 in reducing conditions (+). Mouse IL-12 is a heterodimer comprised of one 40 kDa subunit and one 35 kDa subunit. The total predicted MW is 70 kDa.