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Datasheet for ABIN6239755 IL-2 Protein (AA 21-169) (His tag)

2 Images



Overview

Quantity:	50 µg
Target:	IL-2 (IL2)
Protein Characteristics:	AA 21-169
Origin:	Mouse
Source:	HEK-293 Cells
Biological Activity:	Active
Purification tag / Conjugate:	This IL-2 protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 97 %
Biological Activity Comment:	Interleukin-2 (IL-2), the main lymphokine produced by activated CD4+ T-helper lymphocytes, is a
	potent T-cell growth regulator. In addition to this activity, IL-2 was found to decrease the
	proliferation of 3T3 fibroblasts in time- and dose-dependent manner. Thus 3T3 cells were
	seeded overnight at a density of 5,000 cells/well, and treated with or without various
	concentrations of IL2 for 48h, then 3T3 cells were observed by inverted microscope and cell
	viability was measured by Cell Counting Kit-8 (CCK-8). Briefly, $10\mu L$ of CCK-8 solution was
	added to each well of the plate, then measure the absorbance at 450nm using a microplate
	reader after incubating the plate for 1-4 hours at 37oC. The inhibitory effect of IL-2 on cell
	proliferation of 3T3 cells observed by inverted microscope was shown in Figure 1.

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Target Details	
Target:	IL-2 (IL2)
Abstract:	IL2 Products
Background:	Alternative Names: TCGF, Lymphokine, T-Cell Growth Factor, Aldesleukin
Molecular Weight:	25kDa
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:	Isoelectric Point: 4.9
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 %
	Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS
	SUBSTANCES which should be handled by trained staff only.

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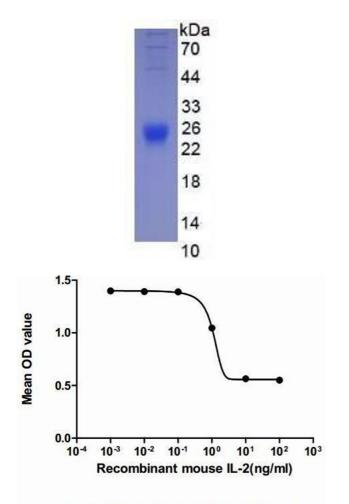


Figure 2. The dose-effect curve of IL2 on 3T3 cells.

Image 2. The dose-effect curve of IL2 was shown in Figure 2. It was obvious that IL2 significantly decreased cell growth of 3T3 cells. The ED50 for this effect is typically 9.876 to 13.35ng/mL.

Image 1.

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