

Datasheet for ABIN1305066

IL12 Protein

1 Publication



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Overview

Quantity:	5 µg
Target:	IL12
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	ELISA, Functional Studies (Func)

Product Details

Brand:	BD Pharmingen™
Specificity:	<p>Biological Activity Range: Measured by 2D6 cell proliferation Specific Activity: 0.2 - 2.0 x 10⁹ Units /mg</p> <p>ED50: 5 - 50 pg/ml</p> <p>Observed dose response: > 200 fold</p> <p>Unit is defined as the amount of material required to stimulate a half-maximal response at cytokine saturation</p>
Characteristics:	<p>The recombinant mouse IL-12 was lyophilized in a solution comprised of 0.22 µm sterile-filtered aqueous buffered solution containing 2.0 mg/ml Biotechnology grade, low endotoxin bovine serum albumin, and containing no preservatives. The mass ratio of carrier-protein to mouse IL-12 is 40:1 or 40 µg BSA to 1 µg IL-12. Recombinant mouse IL-12 was found to be > 95% pure by SDS-PAGE and an absorbance assay based on the Beer-Lambert law.</p>
Purification:	Recombinant mouse IL-12 p70 is provided lyophilized, containing bovine serum albumin and no

Product Details

	preservatives. Recombinant mouse IL-12 p70 was found to be $\geq 95\%$ pure as determined by SDS-PAGE, and an absorbance assay based on the Beer-Lambert law.
Purity:	$\geq 95\%$
Sterility:	0.22 μm filtered
Endotoxin Level:	The endotoxin level is ≤ 0.1 ng per μg of mouse IL-12, as measured in a chromogenic LAL assay.

Target Details

Target:	IL12
Alternative Name:	IL-12 (p70) (IL12 Products)
Background:	Interleukin-12 (IL-12) is a potent regulator of cell-mediated immune responses. Biologically active IL-12 is secreted by activated B lymphocytes and macrophages as a 70 kD heterodimeric glycoprotein comprised of disulfide-bonded 35 kD (p35) and 40 kD (p40) subunits. IL-12 binds to specific high affinity receptors and can, i) stimulate the growth of activated CD4+ and CD8+ T cells and natural killer (NK) cells, ii) promote the development of proinflammatory/Th1-like CD4+ cells and cytotoxic CD8+ T cells, iii) increase the lytic activity of NK cells, lymphokine-activated killer cells and antibody dependent cell-mediated cytotoxic cells, and, iv) induce NK and T cells to secrete large amounts of the proinflammatory cytokine, IFN- γ .
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:	ELISA Standard: This mouse IL-12 is useful as a quantitative standard for measuring mouse IL-12 protein levels in an IL-12 specific sandwich ELISA with the purified 9A5 antibody (Cat. No. 554658) as a capture antibody and the biotinylated C17.8 (Cat. No. 554476) as the detection antibody. To obtain linear standard curves, doubling dilutions of this mouse IL-12 standard from 4000-30 pg/ml should be included in each ELISA plate.
Comment:	BD Pharmingen™ Recombinant Mouse IL-12 p70 - Purified - Clone NA - Reactivity Ms
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized in an aqueous buffered solution containing BSA.
Handling Advice:	Interleukin-12 (IL-12) is a potent regulator of cell-mediated immune responses. Biologically active IL-12 is secreted by activated B lymphocytes and macrophages as a 70 kD heterodimeric glycoprotein comprised of disulfide-bonded 35 kD (p35) and 40 kD (p40) subunits. IL-12 binds to specific high affinity receptors and can, i) stimulate the growth of activated CD4+ and CD8+ T cells and natural killer (NK) cells, ii) promote the development of proinflammatory/Th1-like CD4+ cells and cytotoxic CD8+ T cells, iii) increase the lytic activity of NK cells, lymphokine-activated killer cells and antibody dependent cell-mediated cytotoxic cells, and, iv) induce NK and T cells to secrete large amounts of the proinflammatory cytokine, IFN- γ .
Storage:	-80 °C
Storage Comment:	Store product at -80°C prior to use or for long term storage of stock solutions. Avoid multiple freeze-thaws of product. This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Publications

Product cited in:	Schoenhaut, Chua, Wolitzky, Quinn, Dwyer, McComas, Familletti, Gately, Gubler: "Cloning and expression of murine IL-12." in: Journal of immunology (Baltimore, Md. : 1950) , Vol. 148, Issue 11, pp. 3433-40, (1992) (PubMed).
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