

Datasheet for ABIN5505695

IL12A Protein



Overview

Quantity:	10 µg
Target:	IL12A
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func), Antibody Production (AbP), Standard (STD), Protein Interaction (PI)
Product Details	
Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	 Recombinant human Interleukin-12 alpha / IL12A protein expressed in Insect cells. Produced with end-sequenced ORF clone Tested for bioactivity.
Purity:	95 % , as determined by Coomassie stained SDS-PAGE.
Endotoxin Level:	Less than 0.01 ng per µg protein as determined by the LAL method.
Biological Activity Comment:	The ED50 is 0.05 - 0.25 ng/ml, corresponding to a specific activity of 0.4 - 2.0 x 10^7 units/mg, determined by the production of IFNγ by activated human PBMC in response to IL-12.
Target Details	
Target:	IL12A
Alternative Name:	Interleukin-12 alpha / IL12A (IL12A Products)

Target Details

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Background:	This gene encodes a subunit of a cytokine that acts on T and natural killer cells, and has a
	broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of
	the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine
	receptor family. This cytokine is required for the T-cell-independent induction of interferon
	(IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses
	of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4.
	Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this
	cytokine in innate immunity.
Molecular Weight:	57 kDa
NCBI Accession:	NP_000873
Pathways:	JAK-STAT Signaling, Regulation of Leukocyte Mediated Immunity, Positive Regulation of
	Immune Effector Process, Activated T Cell Proliferation
Application Details	
Application Notes:	Recombinant human proteins can be used for:
	Native antigens for optimized antibody production
	Positive controls in ELISA and other antibody assays
	Protein-protein interaction
	In vitro biochemical assays and cell-based functional assays
Restrictions:	For Research Use only
Handling	
Concentration:	> 50 µg/mL
Buffer:	10 mM NaH2PO4, 150 mM NaCl, pH 7.2
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze
	immediately. Only 2-3 freeze thaw cycles are recommended.