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Datasheet for ABIN2018061

**IL12 Protein (AA 23-215, AA 23-335) (His tag)**

## Overview

Quantity:	50 µg
Target:	IL12
Protein Characteristics:	AA 23-215, AA 23-335
Origin:	Rat
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL12 protein is labelled with His tag.

## Product Details

Characteristics:	ED50 < 0.1 ng/mL, measured in a cell proliferation assay using 2D6 cells. AA 23-215 (p35) and AA 23-335 (p40), expressed with C-terminal 6xHis.
Purity:	> 95 % as analyzed by SDS-PAGE.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

## Target Details

Target:	IL12
Alternative Name:	Interleukin-12 (IL-12) ( <a href="#">IL12 Products</a> )
Background:	Interleukin-12 (IL-12), also known as NKSF, TCMF, CLMF and TSF, is a heterodimeric cytokine composed of p35 and p40 subunits. It is produced by monocytes, macrophages, B cells and dendritic cells in response to bacterial lipopolysaccharides and intracellular pathogens. IL-12

## Target Details

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signals through the IL-12 receptor complex, which is comprised of IL-12 R $\beta$ 1 and IL-12 R $\beta$ 2. IL-12 induces the proliferation and activation of hematopoietic stem cells, natural killer cells and T- cells. It is indispensable during the development of Th1 cells, leading to the production of IFN-gamma and IL-2.

Synonyms: NKSF, TCMF, CLMF, TSF

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Molecular Weight: 26-28kDa (p35) and 42-45 kDa (p40), observed by reducing SDS-PAGE.

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NCBI Accession: [NP\\_072133](#)

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UniProt: [Q9R103](#)

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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

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/mL.

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Buffer: Lyophilized after extensive dialysis against PBS.

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Storage: -80 °C

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Storage Comment: Lyophilized recombinant rat Interleukin-12 (IL-12), His remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rat Interleukin-12 (IL-12), His should be stable up to 1 week at 4°C or up to 2 months at -20°C.

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Expiry Date: 6 months