

Datasheet for ABIN7566267

**Interleukin 35 Protein (IL35) (AA 23-215, AA 23-228) (Fc Tag)**[Go to Product page](#)

## Overview

Quantity:	25 µg
Target:	Interleukin 35 (IL35)
Protein Characteristics:	AA 23-215, AA 23-228
Origin:	Mouse
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Interleukin 35 protein is labelled with Fc Tag.

## Product Details

Purpose:	IL-35 (mouse):Fc (human) (rec.)
Cross-Reactivity:	Mouse
Characteristics:	A soluble dimeric fusion protein consisting of the extracellular domain of mouse IL12a subunit (aa 23-215) is fused to the Fc region of human IgG1, and the mouse Ebi3 subunit (aa 23-228) linked to IL12a by disulfide bonds.
Purity:	>95 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<1EU/mg protein (LAL test, Lonza).
Biological Activity Comment:	Bioactivity was measured in a cell proliferation assay of Con A activated mouse splenocytes.

## Target Details

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Target: Interleukin 35 (IL35)

Alternative Name: IL-35 ([IL35 Products](#))

Background: Interleukin-35

Interleukin-35 (IL-35) is a novel IL-12 family cytokine produced by regulatory T cells (Treg) but not by resting or activated effector T cells (Teff). IL-35 is a heterodimeric protein composed of EBI3 (Epstein-Barr-Virus-induced gene 3) and IL-12a (p35). EBI3 is a downstream target of Foxp3, a transcription factor required for Treg-cell development and function, and thus Treg-cell restriction of IL35 occurs. Regulatory T cells are essential for maintaining self tolerance and preventing autoimmunity, and IL-35 is identified as a molecule that mediates the immune suppression function of Treg-cell. As an inhibitory cytokine, IL-35 induces proliferation of Treg-cell populations but suppresses Th17 cell development. Studies in mice show the absence of either IL-35 chain from Treg-cell reduces the cells' ability to suppress inflammation using an experimental model for inflammatory bowel disease. IL-35 is suggested as a potential target of immunotherapy. Recently, insufficient IL-35 levels were shown to play a pivotal role in the development of type 1 diabetes (T1D) and autoimmune diseases.

Molecular Weight: ~30-60kDa

NCBI Accession: [NP\\_032377](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Buffer: Lyophilized from 0.2µm-filtered solution in PBS.

Handling Advice: Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution.

Storage: 4 °C, -20 °C

Storage Comment: Short Term Storage: +4°C

Long Term Storage: -20°C

Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.