Datasheet for ABIN7318088

Interleukin 35 Protein (IL35) (Fc Tag)

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Overview

Quantity:	50 µg
Target:	Interleukin 35 (IL35)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Interleukin 35 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human Interleukin-35/IL-35 Protein (Fc Tag)(Active)
Sequence:	Met 1-Lys 229
Characteristics:	A DNA sequence encoding the human IL35 complex composed of IL27B subunit (NP_005746.2) (Met 1-Lys 229) and the mature form of human IL12 p35 subunit (P29459) (Arg 23-Ser 219) linked by a polypeptide linker was fused with the Fc region of human IgG1 at the C-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to bind biotinylated human IL6RB-Fch in a functional ELISA.

Target Details

Target:	Interleukin 35 (IL35)

Target Details

Alternative Name:	Interleukin-35/IL-35 (IL35 Products)
Background:	Background: The novel Ebi3-IL-12alpha heterodimeric cytokine has been designated interleukin-35 (IL-35); is a member IL12 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 IL-12α (P35) and IL-27β chains; which are encoded by two separate genes called IL12A and EBI3 (Epstein-Barr-virus-induced gene 3) respectively. Ectopic expression of IL-35 confers regulatory activity on naive T cells; whereas recombinant IL-35 suppresses T-cell proliferation. It identify IL-35 as a novel inhibitory cytokine that may be specifically produced by T(reg) cells and is required for maximal suppressive activity. IL-35 has biological activity and able to expand CD4+CD25+ Treg cells; suppress the proliferation of CD4+CD25- effector cells and inhibit Th17 cell polarization. IL-35 has been shown to be constitutively expressed by regulatory T (Treg) cells CD4(+)CD25(+)Foxp3(+) and suggested to contribute to their suppressive activity. IL-35 is a crucial mediator which provokes CD4+CD25+ T cell proliferation and IL-10 generation; another well-known anti-inflammatory cytokine; along with TGFbeta cytokine. IL-35 is a cytokine can downregulate Th17 cell development and inhibit autoimmune inflammation. It inhibited the differentiation of Th17 cells in vitro. In vivo; IL-35 effectively attenuated established collagen-induced arthritis in mice; with concomitant suppression of IL-17 production but enhanced IFN-gamma synthesis. Thus; IL-35 is a novel anti-inflammatory cytokine suppressing the immune response through the expansion of regulatory T cells and suppression of Th17 cell development. Synonym: CLMF;IL-12A;IL-35;Interleukin-35;NFSK;NKSF1;P35
Molecular Weight:	73.4 kDa

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted

samples are stable at < -20°C for 3 months.