

Datasheet for ABIN7566259 IL-27 Protein (AA 19-228, AA 29-234) (Fc Tag)



Overview

Quantity:	50 µg
Target:	IL-27 (IL27)
Protein Characteristics:	AA 19-228, AA 29-234
Origin:	Mouse, Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-27 protein is labelled with Fc Tag.
Product Details	
Purpose:	IL-27 (mouse):Fc (LALA-PG)-KIH (human) (rec.)
Cross-Reactivity:	Human, Mouse
Characteristics:	IL-27A/p28 (aa 29-234) (mouse):Fc (LALA-PG) Knobs and IL-27B/EBI3 (aa 19-228) (mouse):Fc
	(LALA-PG) Holes form the IL-27 (mouse):Fc (LALA-PG)-KIH (human) (rec.) using the Knobs-into-
	Holes technology (see reference: J.B. Ridgway, et al., Protein Eng. 9, 617 (1996)).
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.01EU/µg purified protein (LAL test).

Farget:	IL-27 (IL27)
Alternative Name:	IL-27 (IL27 Products)
Background:	IL-27 (mouse):Fc Knobs-into-Holes (human) (rec.), Interleukin-27 Subunit alpha, IL-27 Subunit
	alpha, IL-27-A, Interleukin-27 Subunit beta, Ebi3, Epstein-Barr Virus-induced Gene 3 Protein
	Homolog
	Interleukin-12 (IL-12) family members are heterodimer glycoproteins, composed of two
	covalently linked subunits, alpha and beta chains. The alpha-subunit consists of IL-23p19, IL-
	27p28, and IL-12p35, and the beta-subunit includes IL-12p40 and Epstein-Barr virus-induced
	gene (Ebi3). IL-12 members bind to cognate heterodimeric receptor chains expressed on T
	cells. This family includes IL-12, IL-23, IL-27 and IL-35 and IL-39. IL-12 and IL-23 are
	predominantly proinflammatory cytokines that contribute key roles in the development of Th1
	and Th17 cells, respectively. IL-27 has both pro- and anti-inflammatory properties and is a
	potent T cell immunomodulator. IL-35, a new member of this family, is a potent inhibitory
	cytokine produced by natural, thymus-derived regulatory T cell (nTreg) populations. IL-39, the
	newest member of IL-12 family, mediates the inflammatory response through the activation o
	STAT1/STAT3 signaling pathway. These IL-12 family members link innate immunity with the
	development of adaptive immunity and are also important for regulating T cell responses. IL-2
	is composed of two subunits, IL-27p28 and Epstein-Barr virus-induced gene 3 (EBI3) signals v
	a heterodimeric receptor consisting of WSX-1 and glycoprotein (gp130), leading to activation of
	STAT 1 and 3. IL-27 is pro-inflammatory and promotes NK and T cell proliferation as well as the
	production of IFN-gamma. It is anti-inflammatory, inhibiting Th2 and Th17 cell activities and
	stimulating the production of IL-10 by T regulatory cells. IL-27 has potent antiviral activities
	against numerous viruses, by increasing the production of interferons (IFNs). Finally, IL-27 has
	antitumor activity as well as anti-angiogenic activity with activation of the production of anti-
	angiogenic chemokines. The protein IL-27 (mouse):Fc-KIH (human) (rec.) is produced by using
	two different vectors, one encoding for the IL-27A/p28:Fc Knobs sequence (synthesizing a
	protein of 62 kDa) and one encoding for the IL27B/EBI3:Fc Holes sequence (synthesizing a
	protein of 60 kDa). Both vectors transfected into CHO cells produce both Fc molecules (Knobs
	into-Holes technology, J.B. Ridgway, et al., Protein Eng. 9, 617 (1996)) required for dimerizatio
	and for secretion of the final protein IL-27 (mouse): Fc (LALA-PG)-KIH (human) (rec.). The Fc
	contains the mutations LALA-PG that abolish the interaction between the Fc and FcgammaRs
	and therefore Fc undesirable effects. InVivoKines™ are a new generation of recombinant fusio
	proteins for immunotherapeutic, preclinical and translational in vivo research

Molecular Weight:

~62kDa and 60 kDa (SDS-PAGE)

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Target Details	
UniProt:	Q8K3I6, O35228
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	1 mg/mL after reconstitution.
Concentration:	1 mg/mL
Buffer:	Contains PBS
Handling Advice:	After reconstitution, prepare aliquots and store at -20 °C. Avoid freeze/thaw cycles.Centrifuge
	lyophilized vial before opening and reconstitution. PBS containing at least 0.1 % BSA should be
	used for further dilutions.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C
	Long Term Storage: -20°C
	Use & Stability: Stable for at least 6 months after receipt when stored at -20°C.Working aliquots
	are stable for up to 3 months when stored at -20°C.