Datasheet for ABIN7566278

IL1F10 Protein (AA 3-152, Monomer) (Fc Tag)

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Overview

Quantity:	10 µg
Target:	IL1F10
Protein Characteristics:	AA 3-152, Monomer
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL1F10 protein is labelled with Fc Tag.

Product Details

Purpose:	IL-38 (aa 3-152) (mouse) (monomeric):Fc-KIH (human) (rec.)
Cross-Reactivity:	Mouse
Characteristics:	Mouse IL-38 (aa 3-152) is fused at the C-terminus to the Fc portion of human IgG1 (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 protein (LAL test).

Target Details

Target:	IL1F10
Alternative Name:	IL-38 (IL1F10 Products)
Background:	IL-38 (mouse) (monomeric):Fc Knobs-into-Holes (human) (rec.), Interleukin-38, Interleukin-1

Target Details

	Family Member 10, IL-1F10 IL-38 (IL-1F10) belongs to the IL-1 family of proteins. IL-38 is expressed in heart, placenta, fetal liver, spleen, thymus and tonsil. The expression in a variety of immune tissues and similarity to IL-1Ra suggest a role of IL-38 in the inflammatory response. It has been reported that removal of the N-terminus domain of the interleukins of the IL-1F family such as IL-1F5 / 6 / 8 or 9 (also called IL-36Ra, IL-36alpha, IL-36beta or IL-36gamma) is important to increase their biological activity. Recently it has been shown that IL-38 is N-terminally processed and secreted by apoptotic cells. Released processed IL-38 (20-152) binds to the receptor Interleukin-1 receptor accessory protein-like 1 (IL1RAPL1, TIGIRR-2) at the surface of macrophages. Processed IL-38-activated IL1RAPL1 reduces the production of IL-6 leading to inflammation attenuation. IL-38 is unregulated during some autoimmune diseases such as Systemic Lupus Erythematosus. The protein IL-38 (mouse) (monomeric):Fc-KIH (human) (rec.) is produced by using two different vectors, one encoding for the IL-38 (mouse):Fc Knobs sequence (synthesizing a protein of 45 kDa) and one encoding for the Fc Holes sequence (synthesizing a protein of 28 kDa). Both vectors transfected into HEK293 cells produce both Fc molecules (Knobs-into-Holes technology, J.B. Ridgway, et al., Protein Eng. 9, 617 (1996)) required for dimerization of the Fc moieties and for secretion of the final protein IL-38 (mouse) (monomeric):Fc-KIH (human) (rec.). InVivoKines™ are a new generation of recombinant fusion proteins for immunotherapeutic, preclinical and translational in vivo research
Molecular Weight:	~52kDa and 28kDa (SDS-PAGE)

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	After reconstitution: for 10 µg size: 0.1 mg/mL, for 100 µg size: 1 mg/mL
Concentration:	Lot specific
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

Handling

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.