Datasheet for ABIN6253293

IL-15 Protein (AA 49-162, Gln149Asp-Mutant, Gln156Asp-Mutant) (Fc Tag,Biotin)

Go to Product page

Overview

Quantity:	1 vial
Target:	IL-15 (IL15)
Protein Characteristics:	AA 49-162, Gln149Asp-Mutant, Gln156Asp-Mutant
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-15 protein is labelled with Fc Tag,Biotin.

Product Details

Purpose:	IL-15 (mutant) (human):Fc (mouse) (rec.) (Biotin)
Specificity:	The extracellular domain of human IL-15 (aa 49-162) including mutations at Q149D and Q156D is fused to the N-terminus of the Fc region of mouse IgG2a.
Characteristics:	Protein. The extracellular domain of human IL-15 (aa 49-162) including mutations at Q149D and Q156D is fused to the N-terminus of the Fc region of mouse IgG2a. Source: CHO cells. Endotoxin content: <0.06EU/µg protein (LAL test, Lonza). Lyophilized. In PBS and 0.09 % sodium azide. Purity: >98 % (SDS-PAGE). Interleukin-15 (IL-15) has a broad spectrum of biological activities. It is crucial for the development, proliferation, survival and differentiation of multiple cells from both innate and adaptive immune systems. IL-15 up-regulation has a central role in the development of several autoimmune or chronic inflammatory disorders. Targeting IL-15 or its receptor may have a valuable impact on the treatment of immune-mediated diseases. IL-15 participates in the development of important immune antitumor mechanisms. It activates CD8(+) T cells, natural killer (NK) cells, NK T cells, and can promote the formation of antitumor

Product Details

	antibodies. IL-15 can also protect T effector cells from the action of T regulatory cells and reverse tolerance to tumor-associated antigens. In pre-clinical studies IL-15 has been found to demonstrate potentiated antitumor effects following pre-association with IL-15Ralpha, or when used in combination with chemotherapy, adoptive therapy, monoclonal antibodies, and tumor vaccines. Application: Useful for immunofluorescent staining and flow cytometric analysis to identify and enumerate IL-15Ralpha expressing cells within mixed cell populations.
Purity:	>98 % (SDS-PAGE)
Endotoxin Level:	<0.06EU/μg protein (LAL test, Lonza).
Biological Activity Comment:	This mutant IL-15/Fc fusion protein specifically binds to the IL-15R, competitively inhibits IL-15-triggered cell proliferation, promotes transplant tolerance, does not activate the STAT-signaling pathway, and exerts a prolonged circulating half-life caused by the modified Fc domain.

Target Details

Target:	IL-15 (IL15)
Alternative Name:	IL-15 (IL15 Products)
Background:	Alternate Names/Synonyms: Interleukin-15 Product Description: Interleukin-15 (IL-15) has a broad spectrum of biological activities. It is crucial for the development, proliferation, survival and differentiation of multiple cells from both innate and adaptive immune systems. IL-15 up-regulation has a central role in the development of several autoimmune or chronic inflammatory disorders. Targeting IL-15 or its receptor may have a valuable impact on the treatment of immune-mediated diseases. IL-15 participates in the development of important immune antitumor mechanisms. It activates CD8(+) T cells, natural killer (NK) cells, NK T cells, and can promote the formation of antitumor antibodies. IL-15 can also protect T effector cells from the action of T regulatory cells and reverse tolerance to tumor-associated antigens. In pre-clinical studies IL-15 has been found to demonstrate potentiated antitumor effects following pre-association with IL-15Ralpha, or when used in combination with chemotherapy, adoptive therapy, monoclonal antibodies, and tumor vaccines. Application: Useful for immunofluorescent staining and flow cytometric analysis to identify and enumerate IL-15Ralpha expressing cells within mixed cell populations.
NCBI Accession:	NP_751914
Pathways:	JAK-STAT Signaling, Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Concentration:	Lot specific
Buffer:	Lyophilized. In PBS and 0.09 % sodium azide.
Handling Advice:	Avoid freeze/thaw cycles.
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 +4°C.