Datasheet for ABIN7566190

IL-15 Protein (AA 49-162) (His tag)

Go to Product page

Overview

Quantity:	50 µg
Target:	IL-15 (IL15)
Protein Characteristics:	AA 49-162
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-15 protein is labelled with His tag.

Product Details

Purpose:	IL-15 (human) (rec.) (His)
Cross-Reactivity:	Human
Characteristics:	The extracellular domain of human IL-15 (aa 49-162) is fused at the C-terminus to a His-tag.
Purity:	>95 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<0.1EU/µg protein (LAL test, Lonza).
Biological Activity Comment:	Measured by its ability to stimulate the proliferation of mouse CTLL-2 cells. The ED50 for this effect is typically 0.5ng/mL, corresponding to a specific activity of 2x 106 units/mg

Target Details

Target:	IL-15 (IL15)
Alternative Name:	IL-15 (IL15 Products)
Background:	Interleukin-15 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.
Molecular Weight:	~14kDa (SDS-PAGE)
NCBI Accession:	NP_751914
Pathways:	JAK-STAT Signaling, Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from 0.2μm-filtered solution in PBS.
Handling Advice:	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 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.