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Datasheet for ABIN6253247
IL-7 Protein (AA 26-177) (Fc Tag)

Overview

Quantity:	50 µg
Target:	IL-7 (IL7)
Protein Characteristics:	AA 26-177
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-7 protein is labelled with Fc Tag.

Product Details

Purpose:	IL-7 (human):Fc (human) (rec.) (non-lytic)
Specificity:	The extracellular domain of human IL-7 (aa 26-177) is fused to the N-terminus of the Fc portion of a mutant human IgG1.
Characteristics:	<p>Protein. The extracellular domain of human IL-7 (aa 26-177) is fused to the N-terminus of the Fc portion of a mutant human IgG1. Source: CHO cells. Endotoxin content: <0.06EU/µg protein (LAL test, Lonza). Lyophilized from 0.2µm-filtered solution in PBS. Purity: >98 % (SDS-PAGE).</p> <p>Interleukin-7 (IL-7), is a hematopoietic growth factor and a member of the IL-7/IL-9 family. IL-7 stimulates the proliferation of lymphoid progenitors and is secreted by stromal cells in the bone marrow and thymus. IL-7 is also important for proliferation during certain stages of B cell maturation. IL-7 and the hepatocyte growth factor (HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. It is found to be a cofactor for V(D)J rearrangement of the T cell receptor beta (TCRbeta) during early T cell development. IL-7 can be produced locally</p>

Product Details

by intestinal epithelial and epithelial goblet cells and may serve as a regulatory factor for intestinal mucosal lymphocytes.

Purity: >98 % (SDS-PAGE)

Endotoxin Level: <0.06EU/μg protein (LAL test, Lonza).

Biological Activity Comment: Measured in a cell proliferation assay using antibody against CD3-activated human peripheral blood lymphocytes (PBL). The ED50 for this effect is typically 10-100ng/ml.

Target Details

Target: IL-7 (IL7)

Alternative Name: IL-7 ([IL7 Products](#))

Background: Alternate Names/Synonyms: Interleukin-7
Product Description: Interleukin-7 (IL-7), is a hematopoietic growth factor and a member of the IL-7/IL-9 family. IL-7 stimulates the proliferation of lymphoid progenitors and is secreted by stromal cells in the bone marrow and thymus. IL-7 is also important for proliferation during certain stages of B cell maturation. IL-7 and the hepatocyte growth factor (HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. It is found to be a cofactor for V(D)J rearrangement of the T cell receptor beta (TCRbeta) during early T cell development. IL-7 can be produced locally by intestinal epithelial and epithelial goblet cells and may serve as a regulatory factor for intestinal mucosal lymphocytes.

Pathways: [JAK-STAT Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Concentration: Lot specific

Buffer: Lyophilized from 0.2μm-filtered solution in PBS.

Handling Advice: Avoid freeze/thaw cycles.

Storage: 4 °C, -20 °C

Storage Comment: Short Term Storage: +4°C

Handling

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.