

Datasheet for ABIN7566305
IL-7 Protein (AA 26-177) (His tag)



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Overview

Quantity:	10 µg
Target:	IL-7 (IL7)
Protein Characteristics:	AA 26-177
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-7 protein is labelled with His tag.

Product Details

Purpose:	IL-7 (human) (rec.) (His)
Cross-Reactivity:	Human
Characteristics:	The extracellular domain of human IL-7 (aa 26-177) is fused at the C-terminus to a His-tag.
Purity:	>95 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<0.01EU/µg protein (LAL test, Lonza).
Biological Activity Comment:	Measured by the dose dependent stimulation of the proliferation of murine 2E8 cells. The ED50 for this effect is typically 0.2ng/ml corresponding to a specific activity of 5x 10 ⁶ units/mg.

Target Details

Target:	IL-7 (IL7)
Alternative Name:	IL-7 (IL7 Products)
Background:	<p>Interleukin-7, Lymphopoietin 1, LP-1</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 by intestinal epithelial and epithelial goblet cells and may serve as a regulatory factor for intestinal mucosal lymphocytes.</p>
Molecular Weight:	~27kDa (SDS-PAGE)
Pathways:	JAK-STAT Signaling

Application Details

Restrictions:	For Research Use only
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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:	<p>Short Term Storage: +4°C</p> <p>Long Term Storage: -20°C</p> <p>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.</p>