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CHASELECTION

Recombinant Mouse IL-7,Tag Free 货号(Catalog Number): CY164FXXXX(L)

别名(synonym): IL7; IL-7; IL-7interleukin-7; interleukin 7; Lymphopoietin-1; PBGF

来源(Source): Human embryonic kidney cell, HEK293-derived mouse IL-7 protein

蛋白结构 (Structure):该蛋白不含标签

基因 ID: P10168

氨基酸序列

Glu26-Ile154

分子量大小(MW)

14.9 kDa

纯度(Purity)

> 95%, determined by SDS-PAGE

SDS-PAGE

<u>kDa</u> 180	NR	R
130	-	
100 70		
<mark>55</mark>	12	
40		
35		
25		
15		

4 ug/lane protein was resolved with SDS-PAGE under

non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.

制剂(Formulation)

Solution protein.

Dissolved in sterile PBS buffer.

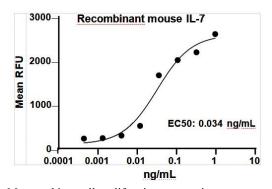
This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.

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内毒素含量(Endotoxin)

<0.010 EU per 1 ug of the protein by the LAL method

生物活性(Bioactivity)



Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBL).

储存与运输(Storage)

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70 $^{\circ}$ C as supplied.

产品背景介绍(Production)

Interleukin-7 (IL-7) is a 25 kDa cytokine of the hemopoietin family that plays important roles in lymphocyte differentiation, proliferation, and survival. Mouse IL-7 cDNA encodes 154 amino acids (aa) that include a 25 aa signal peptide. Mouse IL-7 shares approximately 88% aa sequence identity with rat IL-7 and 58-60% with human, equine, bovine, ovine, porcine, feline and canine IL-7. Human and mouse IL-7 exhibit cross-species activity. IL-7 is produced by a wide variety of cells in primary and secondary lymphoid tissues, including stromal epithelial cells of the thymus, bone marrow, and intestines. Circulating IL-7 is limiting in healthy animals, but increases during lymphopenia. IL-7 signals through a complex of the IL-7 Receptor alpha subunit (IL-7 R alpha, also known as CD127) with the common gamma chain (gamma c). The gamma c is also a subunit of the receptors for IL-2, -4, -9, -15, and -21. IL-7 R alpha is



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expressed on double negative (CD4-CD8-) and CD4+ or CD8+ single positive memory T cells, but undergoes IL-7-mediated down-regulation and shedding during antigen-driven T cell proliferation, and is absent on regulatory T cells. IL-7 contributes to the maintenance of all memory T cells, mainly by promoting expression of the anti-apoptotic protein Bcl-2. It is required for optimal T cell-dendritic cell interaction. IL-7 is expressed early in B cell development prior to the appearance of surface IgM. In mouse, IL-7 activation of IL-7 R alpha is critical for both T cell and B cell lineage development, while in humans, it is required for T cell but not for B cell development. 版本号: IN-PA-74-00

