

CHASELECTION

Recombinant Human IL7, Tag Free

货号(Catalog Number): CY187FXXXX(L)

别名 (synonym): Human IL7; hIL-7; Interleukin-7; interleukin 7; Lymphopoietin-1; PBGF

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

蛋白结构 (Structure): 该蛋白不含标签

基因 ID: P13232

氨基酸序列

Asp26-His177

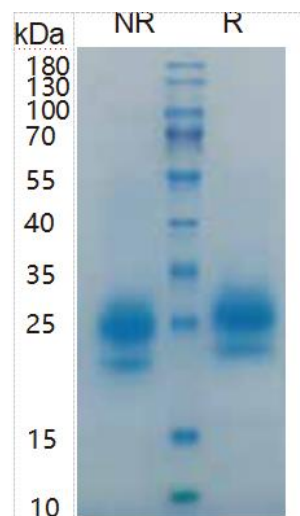
分子量大小(MW)

17.4 kDa

纯度 (Purity)

> 95%, determined by SDS-PAGE

SDS-PAGE



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.

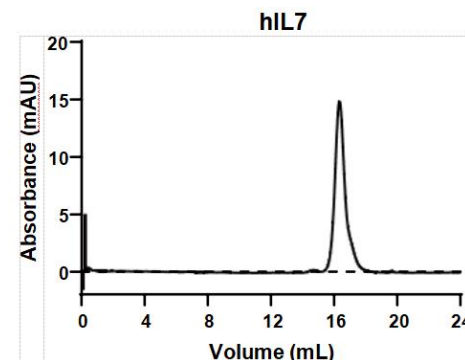
This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.

版本号: IN-PA-91-00

内毒素含量 (Endotoxin)

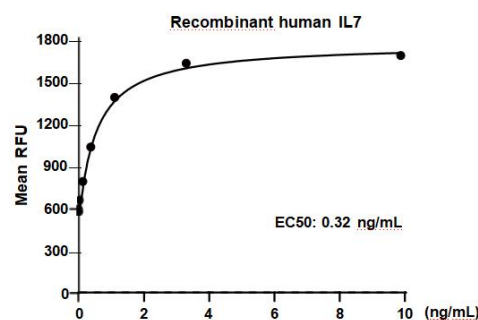
<0.010 EU per 1 ug of the protein by the LAL method

Gel filtration



Size-exclusion chromatography of recombinant human IL7 protein (280 nm absorbance)

生物活性 (Bioactivity)



Recombinant human IL7 stimulates cell proliferation of the 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 °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, rat, canine and feline IL-7, and 72-76% with equine, bovine, ovine, porcine, feline and canine IL-7. Human and mouse IL-7 exhibit



cross-species activity. IL-7 protein 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 protein is limiting in healthy animals, but increases during lymphopenia. IL-7 signals through a complex of the IL-7 Receptor alpha subunit (IL-7 Ralpha, also known as CD127) with the common gamma chain (gamma c). IL-7 contributes to the maintenance of all naive and 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. However, IL-7 functions in both mouse and human pro-B cells to suppress premature Ig light chain recombination during proliferative growth.

