追逐品质, 成就经典

CHASELECTION

Recombinant Human IL11 货号(Catalog Number): CY115FXXXX(L)

别名(synonym): Human IL11; IL11; IL-11; Oprelvekin; interleukin 11; interleukin-11; Adipogenesis inhibitory factor

来源(Source): Human embryonic kidney cell, HEK293-derived human IL-11 protein

蛋白结构 (Structure):

该蛋白不含标签

基因 ID: P20809.1

氨基酸序列:

Pro22-Leu199

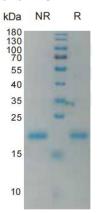
分子量大小(MW):

19.1 kDa

纯度 (Purity):

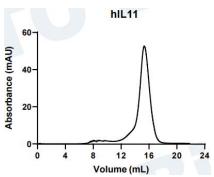
> 95%, determined by SDS-PAGE.

SDS-PAGE



2ug/lane protein was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.

Gel filtration



Size-exclusion chromatography of recombinant human IL11 protein (280 nm absorbance)



内毒素含量(Endotoxin): <0.010 EU per 1 ug of the protein by the LAL method.

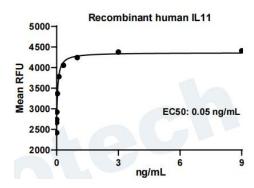
制剂(Formulation):

Solution protein.

Dissolved in sterile PBS buffer.

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

活性检测(Biological Activity):



Recombinant human IL11 stimulates cell proliferation of the T11 mouse plasmacytoma cells.

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-11 (IL-11) is a pleiotropic cytokine in the IL-6 family, which also includes LIF, CNTF, Oncostatin M, Cardiotrophin-1, IL-27 and IL-31.

In humans, IL-11 was also independently discovered as an adipogenesis inhibitory factor (AGIF). The human IL-11 cDNA encodes a 199 amino acid (aa) precursor, which generates a 178 aa, 19 kDa mature unglycosylated protein. Mature human IL-11 shares 88%, 88%, and 96% aa sequence identity with mouse, rat and canine IL-11, respectively. IL-11 is secreted by osteoblasts, synoviocytes, fibroblasts, chondrocytes, intestinal myofibroblasts, and trophoblasts, among other cell types. It is found in the plasma mainly during inflammation, such as that associated with viral



追逐品质, 成就经典

infection, cancer, or inflammatory arthritis, and is considered to be primarily anti-inflammatory. It stimulates hematopoiesis and thrombopoiesis, regulates macrophage differentiation, and confers mucosal protection in the intestine. It has also been found to enhance T cell polarization toward Th2, promote B cell IgG production, increase osteoclast bone absorption, protect endothelial cells from oxidative stress, and regulate epithelial proliferation and apoptosis. IL-11 synergizes with several other cytokines to produce these effects, and its effects overlap with those of IL-6. IL-11 receptor activation requires formation of a complex of two IL-11 molecules with two molecules of the ligand-binding IL-11 R alpha subunit and two molecules of the ubiquitously expressed cell signaling beta subunit, gp130. A soluble form of IL-11 R alpha can bind IL-11 and either form a signaling complex with gp130 on the cell surface, or inhibit cell surface IL-11 R alpha/gp130 signaling.



版本号: IN-PA-165-00