

CHASELECTION**Recombinant Human IL9****货号(Catalog Number):** CY131FXXXX(L)**别名(synonym):** Human IL9; IL9; IL-9; interleukin 9; Cytokine P40; HP40**来源(Source):** Human embryonic kidney cell, HEK293-derived human IL9 protein**蛋白结构 (Structure):**

该蛋白不含标签

基因 ID: P15248**氨基酸序列:**

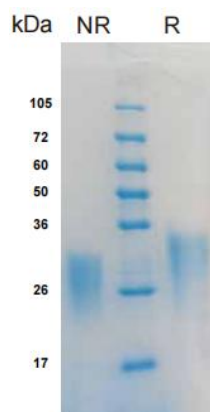
Gln19-Ile144

分子量大小(MW):

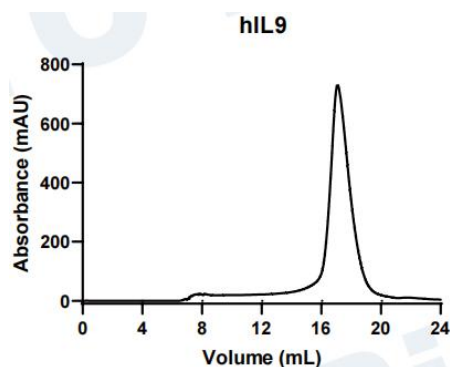
14.1 kDa

纯度 (Purity) :

> 95%, determined by SDS-PAGE.

SDS-PAGE

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

Gel filtration

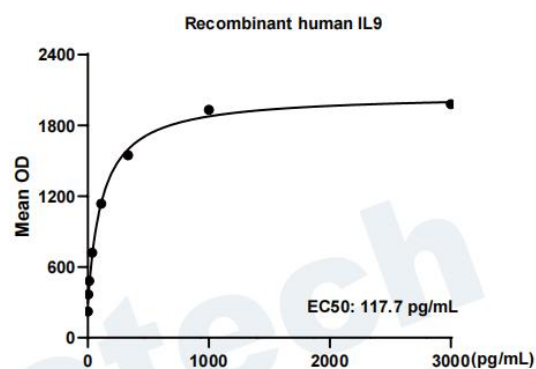
Size-exclusion chromatography of recombinant human IL9 protein (280 nm absorbance)

**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 to a concentration of 0.2 mg/mL.

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

活性检测 (Biological Activity) :

Recombinant human IL9 stimulates cell proliferation of the TF-1 human erythroleukemic 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 °C as supplied.

产品背景介绍 (Production):

Interleukin-9 (IL-9), also known as P40 and MEA (mast cell growth-enhancing activity), is a 30-40 kDa glycosylated member of a cytokine family that includes Interleukins-2, -4, -7, -15, and -21. These proteins utilize heteromeric receptors containing the Common gamma chain (gamma c) in addition to ligand-specific subunits. IL-9 interacts selectively with IL-9 R which then associates with gamma c to form the functional receptor complex. IL-9 contributes to allergic inflammation, autoimmunity-induced inflammation, parasite clearance from the GI tract, and Treg-mediated

immune suppression. It enhances the expansion and recruitment of mast cells and eosinophils as well as the

production of IgE and Th2 cytokines. It is required for anaphylactic responses to ingested allergens but not to systemic allergens. IL-9 plays multiple roles in the development and function of subsets within the CD4⁺ T cell lineage. It is expressed by activated Th9, Th17, Treg, and Th2 cells. IL-9 acts as an autocrine growth and activation factor for Th17, Treg, and mast cells.

