



Synonym

Interleukin-9, IL-9, Cytokine P40

Source

Human IL-9 Protein, His Tag, premium grade (IL9-H52H9) is expressed from human 293 cells (HEK293). It contains AA Gln 19 - Ile 144 (Accession # [P15248-1](#)).

Predicted N-terminus: Gln 19

Human IL-9 Protein, His Tag, premium grade (IL9-H52H9), designed for preclinical stage, has the same activity and performance with GMP Human IL-9, which enables a seamless transition from preclinical development to clinical phases. Premium Grade product offer a cost efficient alternative of GMP Grade products for the early development phase when safety of raw materials is not top priority. By using Premium Grade products in early development phase, you can transition easily into clinical and commercial phase without need to revalidate the raw materials and modify manufacturing process.

Molecular Characterization

IL-9(Gln 19 - Ile 144)
P15248-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 16.0 kDa. The protein migrates as 33-37 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Sterility

The sterility testing was performed by membrane filtration method.

Mycoplasma

Negative.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

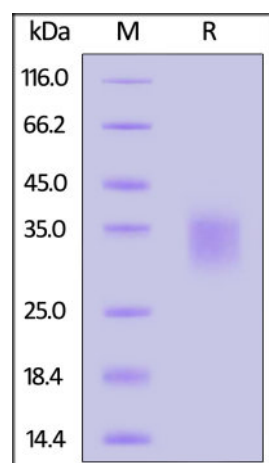
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

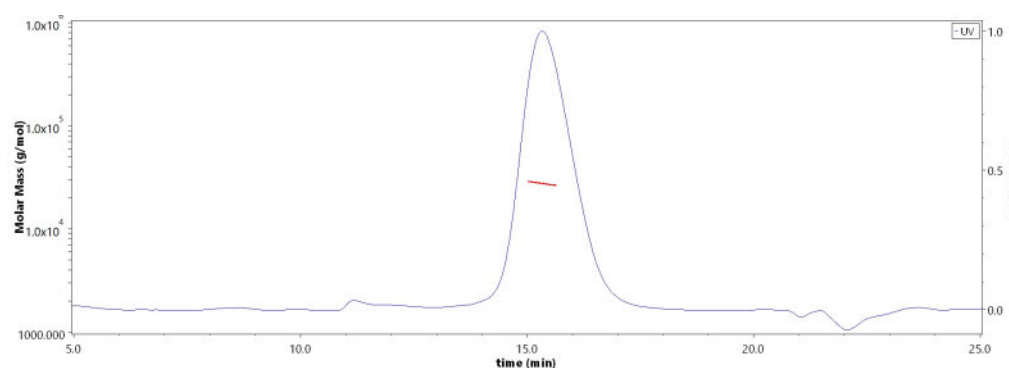
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human IL-9 Protein, His Tag, premium grade on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS



The purity of Human IL-9 Protein, His Tag, premium grade (Cat. No. IL9-H52H9) is more than 90% and the molecular weight of this protein is around 23-33 kDa verified by SEC-MALS.

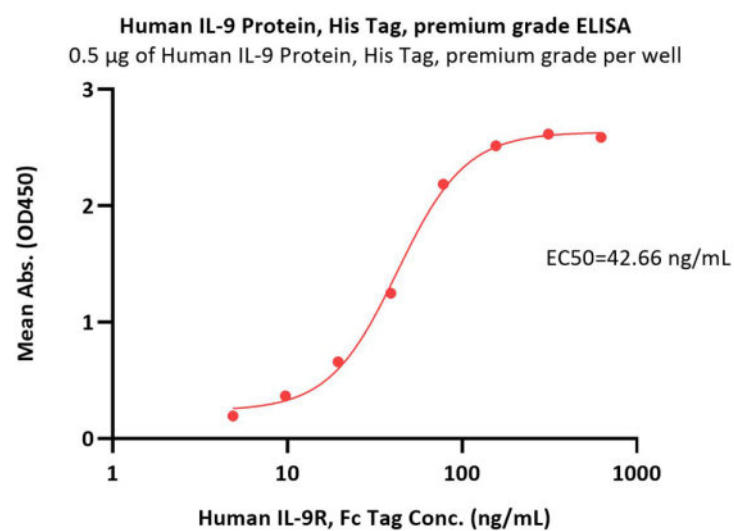
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Bioactivity-ELISA



Immobilized Human IL-9 Protein, His Tag, premium grade (Cat. No. IL9-H52H9) at 5 µg/mL (100 µL/well) can bind Human IL-9R, Fc Tag (Cat. No. ILR-H5251) with a linear range of 5-78 ng/mL (QC tested).

Background

Interleukin-9 (IL-9) is expressed primarily by activated T cells. The growth factor and anti apoptotic activities of IL-9 on multiple transformed cells suggest a potential role for the cytokine in tumourigenesis. IL-9 has also been proposed as a candidate gene for asthma IL-9 is a Th2-derived cyto kine that has been reported to regulate T and B cell function. IL-9 was first isolated as a factor capable of sustaining the long-term growth of murine T cell clones, but has since been demonstrated to have in vitro activities on mast cells, erythroid progenitors, and B cell Ig expression.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

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