

Human IL-24 Protein, His Tag (SPR & BLI verified)

Catalog # IL4-H52H4



Synonym

Interleukin-24, IL-24, Melanoma differentiation-associated gene 7 protein, MDA-7, Suppression of tumorigenicity 16 protein, IL24, MDA7, ST16

Source

Human IL-24 Protein, His Tag (IL4-H52H4) is expressed from human 293 cells (HEK293). It contains AA Gln 52 - Leu 206 (Accession # [Q13007-1](#)).

Predicted N-terminus: Gln 52

Molecular Characterization

IL24(Gln 52 - Leu 206) Q13007-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 20.0 kDa. The protein migrates as 30-35 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

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.

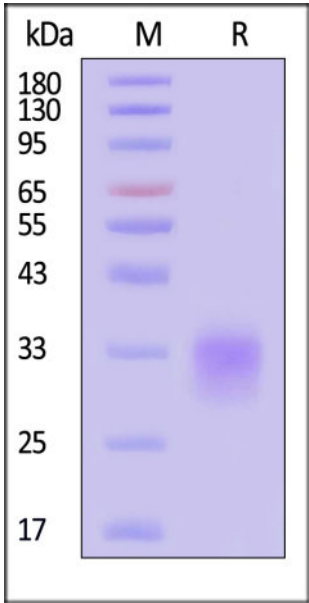
This product is stable after storage at:

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

ACRO Quality Management System

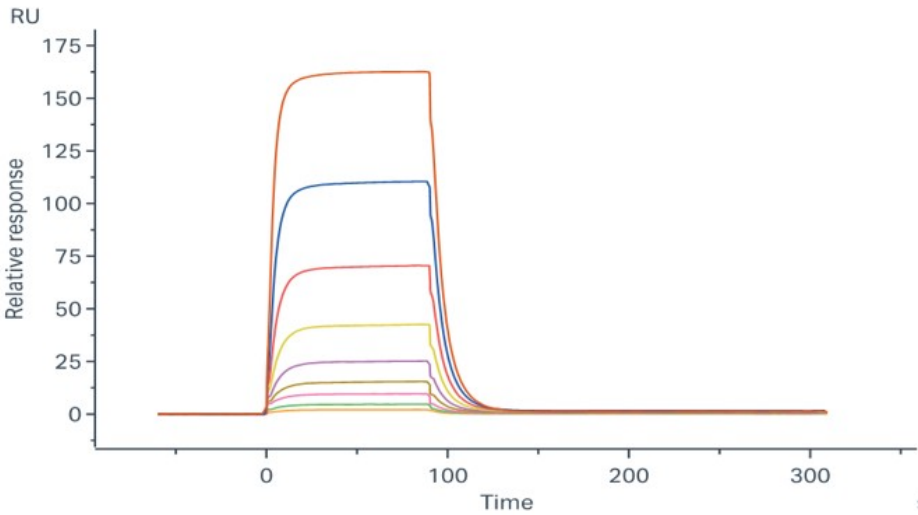
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



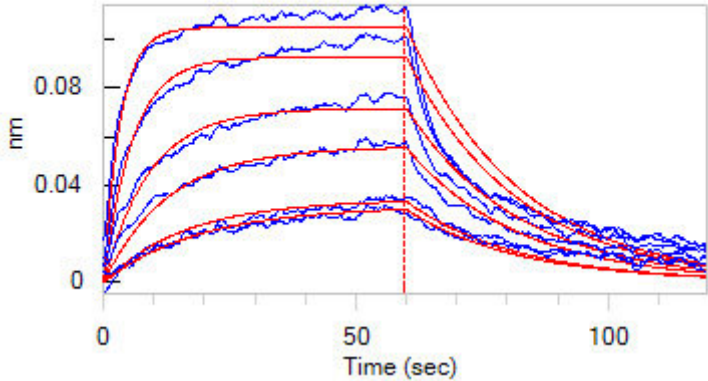
Human IL-24 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-SPR



Human IL-22 R alpha 1 Superstable Mutant Protein, Fc Tag (Cat. No. IL1-H5257) captured on Protein A Chip can bind Human IL-24 Protein, His Tag (Cat. No. IL4-H52H4) with an affinity constant of 3.28 μ M as determined in a SPR assay (Biacore 8K) (QC tested).

Bioactivity-BLI



Loaded Human IL-22 R alpha 1 Protein, Fc Tag (Cat. No. IL1-H5258) on Protein A Biosensor, can bind Human IL-24 Protein, His Tag (Cat. No. IL4-H52H4) with an affinity constant of 1.71 μ M as determined in BLI assay (ForteBio Octet Red96e) (QC tested).

Background

Interleukin-24 (IL-24, also known as melanoma differentiation-associated gene-7) belongs to the family of IL-10-related cytokines, which includes IL-10, -19, -20, -22, -24 and -26. Interleukin 24 signals through two heterodimeric receptors: IL-20R1/IL-20R2 and IL-22R1/IL-20R2. Upon binding to its receptors, IL-24 induces

rapid activation of Stat-1 and Stat-3 transcription factors, which appear to play a role in cell survival and proliferation . Structurally and functionally, IL-24 is highly conserved across species.IL-24 has been shown to possess cancer-specific apoptosis-inducing activity, and has therefore been suggested as a potential anti-cancer agent.



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