

# Recombinant Human IL-24 Protein

Catalog No.: RP03298 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	11009	Q13007

### Tags

C-his

### Synonyms

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

## Product Information

Source	Purification
HEK293 Cells	≥ 90 % as determined by SDS-PAGE.

Calculated MW	Observed MW
19.5 kDa	35 kDa

### Endotoxin

&lt; 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

Interleukin-24 (IL-24) also known as Melanoma differentiation-associated gene 7 protein (MDA-7) is a member of the IL10 family of cytokines. IL24/MDA-7/IL24 can induce apoptosis selectively in various cancer cells. Overexpression of IL-24 leads to elevated expression of several GADD family genes, which correlates with the induction of apoptosis. The phosphorylation of mitogen-activated protein kinase 14 (MAPK7/P38), and heat shock 27kDa protein 1 (HSPB2/HSP27) are found to be induced by this gene in melanoma cells, but not in normal immortal melanocytes. Human IL-24/MDA-7/IL24 is secreted by activated peripheral blood mononuclear cells and is the ligand for two heterodimeric receptors, IL22R1/IL-20R2 and IL-20R1/IL-20R2. Northern blot analysis revealed IL24/MDA-7/IL24 expression in human tissues associated with the immune system such as spleen, thymus, peripheral blood leukocytes and normal melanocytes. IL-24/MDA-7/IL24 binding to either its endogenous receptor on human keratinocytes or to ectopically expressed receptors on baby hamster kidney cells leads to activation of the signal transducers and activators of transcription.

## Basic Information

### Description

Recombinant Human IL-24 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met 1-Leu 207) of Human IL-24 (Accession #NP\_001172085.1) fused with His tag at the C-terminus.

### Bio-Activity

Measured in a cell proliferation assay using BaF3 mouse pro-B cells transfected with human IL20 Rα and human IL20 Rβ. The EC50 for this effect is typically 0.05-0.25 ng/mL.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

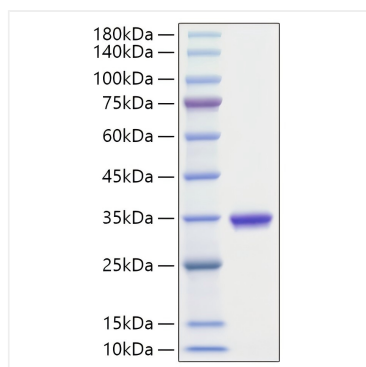
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## Validation Data

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Recombinant Human IL-24 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.