

Recombinant Human IL-24 Protein

Catalog No.: RP03298

Sequence Information

Species Gene ID

Human 11009

Swiss Prot Tags

Q13007 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

< 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 receptors 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.

Activity

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

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

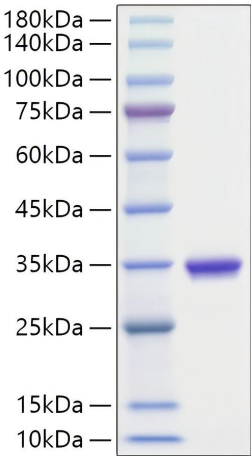
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Validation Data



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